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ABSTRACT

This report contains a brief summary of the evaluation of the Summer At-Home Reading Program, which was designed to improve the reading skills of low achieving elementary school children and to involve parents actively in their children's reading instruction. Among the positive findings reported for the program are that parents who participated were generally enthusiastic about the program and wanted to see it continued, were satisfied with the training they received, and did not report any major problems in finding assistance when necessary. Among the negative findings reported are: the program had no discernable impact on reading achievement as measured by standardized tests, many students were assigned materials that were either above or below their current level of reading achievement, and first grade students were "overselected" for the program. The major portion of the report consists of appendixes that contain data gathering forms, tests, and other materials used in the program evaluation. (FL)

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INTERIM EVALUATION REPORT:

1980 Summer At-Home Reading Program

January, 1981

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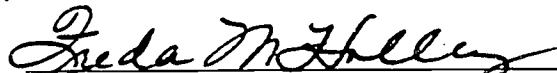
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FINAL REPORT

Project Title: 1980 Summer At-Home Reading Program

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Major Positive Findings:

1. The parents who participated in the program were generally very enthusiastic about it and would like to see it or similar programs continued.
2. Most participating parents were satisfied with the training they received from Title I staff.
3. Parents did not report any major problems in finding assistance when necessary.

Major Findings Requiring Action:

1. At-Home participants did not make larger achievement gains than their matched controls.
2. The program's participation objective was not met.
3. A large number of participants appeared to be assigned At-Home session levels which were either above or below their current level of reading achievement.
4. First-grade students may have been over-selected for participation in the program, i.e., on the whole, first graders were not as far behind their peers as were students at other grades.

Program Description:

The At-Home Program is designed to improve the reading skills of low-achieving elementary school children. Participants receive one of eight different reading kits (called "sessions") designed to correspond to their current reading ability. Sessions range in difficulty from prekindergarten to sixth-grade reading levels. Each session consists of 10 lessons which are to be completed at home over a ten-week period. The lower level sessions (A, A/B, B, C, and D) provide opportunities for parents to play an active role in their child's reading instruction; the higher level sessions (X, Y, and Z) allow for more independent work on the part of the child.

Completed lessons are sent to the At-Home headquarters in Maryland, where they are corrected by certified teachers and then returned to the students. Additional materials, designed for enrichment or remediation, may be included with the corrected lessons.

All participants receive a certificate; those who complete all ten lessons also receive an At-Home T-shirt. A special banquet, held in mid-August, honored those students whose performance in the program was outstanding.

The At-Home Program has been used previously during summers of 1977, 1978, and 1979. In addition, Title I used the program as an instructional support component during the 1977-78 school year. Based on consistently strong support for the program from participating parents, principals, and Title I teachers, a decision was made to continue the program during the summer of 1980. The program was implemented on the following Title I elementary campuses: Allison, Brentwood, Brown, Dawson, Norman, Oak Springs, Pecan Springs, Pleasant Hill, Ridgetop, Rosedale, Rosewood, and Sims.

Families with a child eligible for Title I services, and whom the school's Title I or Title I Migrant reading teacher considered likely to complete the program, were invited to participate. Because approximately 100 kits were left after those families given the opportunity to participate actually registered, the program coordinator offered enrollment in a second ten-week session to a group of participating families. This second session was held subsequent to the first, from August 11 to September 28, 1980.

Evaluation Summary:

The evaluation was conceptualized in the original design (ORE publication number 79.54) as focusing on three general issues. The first issue involved the degree of participation on the part of the involved families, as well as a general description of the way in which participating families used the program materials. A second general issue centered on the reading achievement gains of At-Home students relative to a group of control students. The third general area of interest was whether achievement gains could be related to certain implementation characteristics.

What follows is a brief summary of the evaluation findings. These findings have been organized around the major question to which they are relevant. More complete information about the procedures used to collect and analyze these data can be found in the technical appendices to this report.

HOW DID PARENTS FEEL ABOUT THE PROGRAM?

Participating parents' feelings about the At-Home Program were assessed with a questionnaire developed by ORE (see Appendix B). Parents responded to several multiple-choice items which were designed to tap various aspects of the program itself as well as its administration. Respondents were also invited to write additional comments on the back of the questionnaire.

Responses to the multiple-choice portion of the questionnaire were quite consistent. Most parents were satisfied with the parent training they received, and very few reported any problems in finding assistance when necessary.

The majority of the parents thought the lesson instructions were easy to understand, although levels A, B, and D seemed to be somewhat harder for parents to understand than the other levels. Most parents reported that their children enjoyed doing the lessons.

Responses to the open-ended item were also quite positive. That is, most of the respondents indicated they enjoyed the program and many expressed a wish for its continuation in the future. Different parents tended to emphasize different aspects of the program as particularly important to them. For example, several stated they liked the opportunity to interact with their child and that the experience gave them a better appreciation of the child's strengths and weaknesses. Several thought the program was beneficial in terms of maintaining the child's academic skills during the summer vacation, and many noted that their children enjoyed working on the lessons.

However, parents' written comments were not uniformly positive. A few respondents thought the lessons were too easy for their child, while an equal number thought the lessons were too hard. Several parents wanted to see math lessons in addition to the reading lessons. Two parents said they were unable to get help when they needed it, and one wished that the lessons took longer than 15-20 minutes to complete. One parent was disappointed that her child received the same level the child worked on last summer. Three parents felt the program started too early and that it should not start before school ends. Four parents commented on problems they had communicating with program headquarters in Maryland (e.g., being told that only seven lessons were received when all ten had been sent).

To summarize, the parents who participated in the program were generally very enthusiastic about it, many of them expressing a desire for its continuation.

HOW CAN WE DESCRIBE PARTICIPATION IN THE PROGRAM?

Information relevant to this question was derived from two sources. One source was the Parent Questionnaire (Appendix B), which included questions about how the family worked on the lessons. The second source of information was the student profiles maintained by At-Home headquarters in Maryland (Appendix C). These profiles included the number of lessons completed and mistakes made by each participant.

Responses to the Parent Questionnaire indicated that the mother was most frequently the family member who helped the child. Most parents reported that their children did not need a lot of help in completing the lessons, and most lessons were completed in one day. It was initially hoped that information about the way the family worked on the lessons could be related to subsequent achievement gains. Unfortunately, the lack of variability in parents' responses meant that such relationships could not be meaningfully evaluated.

Figure 1 displays the average number of completed lessons and the average number of errors per completed lesson by session level. According to these data (supplied by program headquarters in Maryland), the total average number of completed lessons was 7.7. This represents a lesson completion rate of 77%, somewhat lower than the program's stated participation objective ("participants will complete 80% of the At-Home lessons").

Figure 1 also suggests that as the difficulty level of the sessions increases, the number of completed lessons tends to decrease and the number of errors tends to increase.

Session Level	Number of Participants	Average Number of Completed Lessons	Average Number of Errors ^a
A	48	7.98	.50
A/B	68	7.93	.49
B	74	7.74	.59
C	35	7.71	1.04
D	38	7.24	1.04
X	27	8.26	1.57
Y	14	6.14	2.83
Z	3	5.00	1.67
TOTAL	307	7.70	.86

^a Per completed lesson.

Figure 1. MEAN NUMBER OF COMPLETED LESSONS AND ERRORS PER COMPLETED LESSON BY AT-HOME SESSION LEVEL. First ten-week session.

Another issue of interest with respect to program participation was the extent to which students were assigned session levels which corresponded to their reading ability as assessed by the Iowa Tests of Basic Skills (ITBS).

Appropriateness		AT-Home Session Level				
		A/B	B	C	D	X-Z
Too Hard	n	-	3	10	12	22
	%	-	3	29	32	50
Appropriate	n	15	43	17	13	19
	%	23	61	49	34	43
Too Easy	n	49	24	8	13	3
	%	77	34	22	34	7

Figure 2. APPROPRIATENESS OF MATH BETWEEN SESSION LEVEL AND ENTERING ACHIEVEMENT LEVEL. Percents refer to column percents.

Figure 2 displays the results of a classification of participants as appropriately or inappropriately assigned to specific session levels on the basis of spring, 1980, ITBS reading scores. Inspection of this figure reveals a high proportion of level A/B participants for whom that level was apparently too easy, as well as a large number of levels X-Z participants for whom those levels were apparently too difficult.

To summarize, the typical family's participation in the At-Home Program may be broadly described as a mother working with her child on a brief lesson, which is completed in one sitting and with which the student seems to need little help. If the student is working on one of the X-Z levels, he will possibly complete fewer lessons and make more errors than if he is working on one of the other levels. A student assigned an X-Z level may be working with material which is too difficult; a student assigned the A/B level is probably working on material with a difficulty level below her reading ability.

WAS READING ACHIEVEMENT INFLUENCED BY PARTICIPATION IN THE PROGRAM?

This question was of major importance in the program evaluation. Consequently, much effort was directed toward selecting a carefully matched group of comparison students, administering and scoring the posttests, and analyzing the resulting data. The details of this effort are described in full in Appendices D and E.

The Metropolitan Readiness Tests was used as the posttest for kindergarten participants and controls. Figure 3 shows that there was no measurable effect of the program at the kindergarten level. Figures 4 through 6 show the results of the analyses for grades 1-6 which tested for equal gains between At-Home and control students on the Word Analysis, Vocabulary, and Reading Comprehension subscales of the ITBS. These figures reveal no significant effect of At-Home participation in terms of ITBS grade equivalent scores.

Additional analyses, which looked for program effects in terms of specific skills rather than overall grade equivalents, also yielded negative results. Moreover, achievement gains were not related to the number of lessons completed, even when the effects of an additional ten lessons were evaluated. Nor did students who had participated in the program in previous years make larger gains than those participating for the first time.

One interesting observation drawn from Figures 4-6 is that the program's first graders had, on all three tests, average achievement levels virtually identical to the achievement levels of the second graders. This suggests that the first graders may have been "over-selected" for program participation. That is, they may have been enrolled in the program less selectively than the other students.

To summarize, the program apparently had no discernible impact on reading achievement as measured by standardized test scores.

Measures	N	Mean Raw Score		Equal Slopes			Equal Gains		
		Pretest ^a	Posttest	df	F	p	df	F	p
Auditory Skills									
At-Home	24	37.88	17.42	1,44	<1	.81	1,45	<1	.84
Control	24	38.50	17.42						
Visual Skills									
At-Home	24	37.88	15.83	1,44	1.07	.31	1,45	<1	.45
Control	24	38.50	17.46						
Language Arts Skills									
At-Home	24	37.88	10.67	b			1,45	<1	.35
Control	24	38.50	10.75						
Prereading Composite									
At-Home	24	37.88	44.46	1,44	<1	.73	1,45	<1	.92
Control	24	38.50	45.63						

^a Pretest is total raw score on the Boehm Test of Basic Concepts (Spring, 1980, administration).

^b The amount of variance accounted for by the two models was virtually identical. Therefore, this test could not be meaningfully evaluated.

Figure 3. COMPARISON OF GAINS MADE BY AT-HOME AND CONTROL STUDENTS ON MRT MEASURES.

Groups	N	Mean Grade Equiv.		Equal Slopes			Equal Gains		
		Pretest	Posttest	df	F	p	df	F	p
Grade 1									
At-Home	42	1.71	1.96	1,80	<1	.53	1,81	1.84	.18
Control	42	1.79	1.82						
Grade 2									
At-Home	21	1.70	1.75	1,38	<1	.80	1,39	1.05	.31
Control	21	1.85	2.02						

Figure 4. COMPARISON BY GRADE OF WORD ANALYSIS GAINS MADE BY AT-HOME AND CONTROL STUDENTS. Ten-week participants only.

Groups	N	Mean Grade Equiv.		Equal Slopes			Equal Gains		
		Pretest	Posttest	df	F	p	df	F	p
Grade 1									
At-Home	41	1.68	1.99	1,78	<1	.70	1,79	<1	.69
Control	41	1.60	1.89						
Grade 2									
At-Home	21	1.50	1.75	1,38	1.65	.20	1,39	<1	.44
Control	21	1.58	2.00						
Grade 3									
At-Home	14	2.58	2.71	1,24	1.07	.31	1,25	3.02	.09
Control	14	2.55	3.08						
Grade 4									
At-Home	17	3.64	3.64	1,30	1.67	.20	1,31	3.21	.08
Control	17	3.70	4.05						
Grade 5									
At-Home	21	4.48	4.83	1,38	<1	.60	1,39	<1	.37
Control	21	4.43	4.99						

Figure 5. COMPARISON BY GRADE OF VOCABULARY GAINS MADE BY AT-HOME AND CONTROL STUDENTS. Ten-week participants only.

Groups	N	Mean Grade Equiv.		Equal Slopes			Equal Gains		
		Pretest	Posttest	df	F	p	df	F	p
rade 1									
At-Home	40	1.52	1.95	1,76	2.96	.09	1,77	3.01	.08
Control	40	1.67	1.88						
rade 2									
At-Home	21	1.78	2.00	1,38	1.95	.17	1,39	<1	.78
Control	21	1.73	1.93						
rade 3									
At-Home	14	2.81	2.73	1,24	<1	.64	1,25	5.02	.03
Control	14	2.79	3.16						
rade 4									
At-Home	17	3.49	3.86	1,30	2.65	.11	1,31	<1	.87
Control	17	3.51	3.85						
rade 5									
At-Home	21	4.31	4.46	a			1,39	<1	.90
Control	21	4.52	4.59						

The amount of variance accounted for by the two models was virtually identical. Therefore, this test could not be meaningfully evaluated.

Figure 6. COMPARISON BY GRADE OF READING COMPREHENSION GAINS MADE BY AT-HOME AND CONTROL STUDENTS. Ten-week participants only.

Discussion and Recommendations:

ORE has done outcome evaluations of Title I and Migrant summer school programs for several years. The results have consistently failed to yield evidence of an impact of these programs on achievement scores. Moreover, these programs have been much more extensive in scope and duration than the At-Home Reading Program. For example, a summer school might meet all morning five days a week for six weeks and provide about 90 hours of instruction. Therefore, the failure of the present evaluation to detect achievement effects in a program providing 10-20 hours of instruction is not surprising.

However, the failure of the program to meet its achievement objective should not overshadow the high degree of enthusiasm on the part of participating families. Most of the parents seemed genuinely excited about having an opportunity to become actively involved in their children's schooling, and many appeared receptive to future efforts along these lines.

The recent work by Irving Lazar and Richard Darlington (Lazar and Darlington, 1978) may have some relevance to this evaluation. Lazar and Darlington did a follow-up study of former participants in preschool education programs. They found that the programs had a positive long-term impact on the students when compared with nonparticipants. Interestingly enough, however, they found that the impact was not related to such program characteristics as the child's age upon entry into the program, the length of the program (in months or hours per year), the degree of parental participation, or a number of other variables. In a presentation in Austin, Lazar suggested that somehow the effects the programs had on parents may have been the factor responsible for the positive outcomes. The parents may have become more involved in the education of their children than they would have otherwise. There is some evidence from the study that they had higher expectations for their children than did the parents of nonparticipants.

In reading the written comments added by the parents of At-Home participants, it seems that many parents probably liked the program because

- a. it gave them the school's permission to work with their children, and
- b. it provided them with specific activities to do with them.

It is possible that as a result of participation in the program, At-Home parents may feel freer and more confident about monitoring the educational progress of their children. Such changes in parental attitude could have a long-range payoff for the program. In order to test that possibility, 1980 At-Home participants and controls will be followed through the 1980-81 and 1981-82 school years to see if such long-term benefits can be found.

Based on the findings presented in this report, the following recommendations are made:

- If reading achievement gains are an expected outcome of this program, the number of lessons per week should be increased. However, five lessons a week for 12 weeks would only provide 60 hours of instruction. This amount might not be sufficient to improve achievement.
- Future programs of this nature should closely examine the way in which participants are given materials of varying difficulty levels, in order to produce a closer match between those materials and participants' abilities.
- Parents seem to enjoy this kind of involvement in their children's education and may be responsive to more extensive efforts along these lines (e.g., increasing the length and/or number of lessons).
- It might be desirable to incorporate the use of parental involvement activities such as the At-Home Reading Program into the regular school curriculum (e.g., structured homework assignments designed to involve the student's parents).
- Future evaluations of this type of program should include, if possible, outcome measures other than strictly academic ones (e.g., degree and type of parental involvement in the school during and following program participation).

Reference

Lazar, I and Darlington R. B. Summary: Lasting effects after preschool.
 Denver: Education Commission of the states, 1978.

1980 Summer At-Home Reading Program

Appendix A

AT-HOME OBSERVATION FORM

Instrument Description: At-Home Observation Form

Brief description of the instrument:

A three-page form used to guide home observations. The form lists variables to watch for during the observation, questions to ask the parent(s) following the observation, and contains spaces for describing the room arrangement, sequence of events, etc.

To whom was the instrument administered?

Teachers at several of the project schools suggested names of families who would be willing to allow an observer into their homes. Phone contacts resulted in five families who agreed to the observations.

How many times was the instrument administered?

Six times (one family had two children observed).

When was the instrument administered?

June 19, 20, 27, and July 1, 1980.

Who administered the instrument?

An observer hired by ORE specifically for this purpose.

What training did the administrator have?

General training in observation practices.

Was the instrument administered under standardized conditions?

No.

Were there problems with the instrument or the administration that might affect the validity of the results?

The families who were willing to allow observations may not have been representative of the entire group of participating families.

Who developed the instrument?

An evaluation intern, with the consultative assistance of the Title I Migrant evaluator.

What reliability and validity data are available for the instrument?

None.

Are there norm data available for interpreting the results?

No.

AT-HOME OBSERVATION FORM

Purpose

The At-Home Observation Form provided information used in the development of the Parent Questionnaire. As such, it was not directly related to any decision or evaluation questions. It was hoped that observations of parents working with their children at home would result in the isolation of several dimensions which could differentiate families in terms of how they used the At-Home materials. The form is reproduced in Attachment A-1.

Procedure

The Title I reading teachers at several of the participating schools were asked to suggest families who might be willing to allow an observer into their homes while the family conducted an At-Home lesson. Working from this list, the observer contacted families by phone and arranged appointments.

Prior to the observations, the families were told to simply conduct the lesson as they normally would. Following the lesson, the observer asked them the questions found on page three of the form. After each observation, the observer returned to ORE, where she was debriefed by several members of the evaluation staff.

Results

Six observations (in five different families) were conducted. Three of the observations were of mothers working with daughters; one involved a mother and son; two involved older sisters helping younger sisters. One observation was a level X lesson; three were level D lessons; two were level B lessons.

For the most part, the parents seemed to have little trouble using the materials, although one mother did say that sometimes she wished the instructions accompanying the lessons were easier to understand. This mother reported going to a neighbor to get clarification on one set of instructions. Most of the children moved through their lessons quite rapidly and with little apparent difficulty, although one child did seem to have some trouble using a dictionary.

There was some variability in terms of the amount of parental involvement in the lesson. In fact, one mother simply helped her child get the materials ready, and then left the room for the duration of the lesson. This was the same child who had trouble using the dictionary (the child

was working on level X). This mother was the only one to give a negative evaluation of the program, claiming that she was surprised by the fact that it was a correspondence course and also stating that she could not see the usefulness of the lessons themselves. However, the observer felt that these comments were largely a function of this mother's general negative attitude (e.g., the mother also criticized desegregation, Title I regulations, her child's motivational level, etc.).

With the one exception described above, the mothers were uniformly positive about the program. One stated that the time spent working with her daughter was a special time for them both. Several indicated an interest in additional lessons, and one felt that the program had made a definite improvement in her daughter's reading ability. Two mothers felt the lessons may have been a little too easy for their daughters (one of these tried to get a higher level for her daughter, but was told by the teacher she contacted that it was too late to change). Two parents commented on the slowness with which they received corrected lessons from Maryland.

AT-HOME OBSERVATION

FAMILY: _____ DATE: _____
 CHILD'S NAME: _____ LESSON STARTED: _____
 CHILD'S BIRTHDATE: _____ LESSON ENDED: _____
 CHILD'S LAST GRADE: _____ LESSON NUMBER: _____

I. Describe the general setting in which the lesson was conducted. Include the number of people present, the room in which the lesson was held, which parent(s) helped, any distractions or interruptions, etc.

II. Draw a diagram representing the relative positions of all the people in the room (including yourself).

FAMILY: _____

observation -- page 2

III. While watching the lesson, try to keep in mind the following questions, and try to answer each one.

- a. What was the general pace of the lesson (slow, fast, moderate?)
- b. Did the parents seem to have any trouble using the materials?
- c. Did the parents and child seem to enjoy the lesson?
- d. Did the parents seem confident or hesitant in working with materials?
- e. Did the lesson seem too easy, too difficult, or about right for the child's ability?
- f. Did the parents discuss the lesson with the child or move through it with little discussion?
- g. To what extent was the parent active or passive during the lesson?
- h. To what extent did the parents praise and/or criticize their child's efforts?

IV. Describe the general sequence of events during the lesson. Include any additional observations not covered above.

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Attachment A-1
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FAMILY: _____

observation -- page 3

- V. After the lesson is completed, tell the parent(s) you are interested in what they think of the program so far. Point out that their answers will be kept confidential. In the course of an informal conversation, try to find out their opinions on the following subjects.

(Note: to keep this as casual as possible, wait to record responses until you are out in the car)

- a. How and why did they become involved in the program?
- b. How often do they usually have a lesson during the week?
- c. Do they review material between actual lessons?
- d. Do they feel their child is on the right level (i.e., do they think the materials are too hard or too easy)?
- e. Do they know who to call if they have any problems?
- f. Would they be interested in additional lessons after they've finished these?
- g. What things about the program do they especially like?
- h. What things about the program would they change if they could?

Record any additional comments made by the parent(s) or child. -

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Attachment A-1
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1980 Summer At-Home Reading Program

Appendix B

AT-HOME PARENT QUESTIONNAIRE

Brief description of the instrument:

The questionnaire is a one-page form containing statements about various aspects of the At-Home Reading Program. Parents indicate the statements with which they agree by filling in the appropriate circles. The questionnaire is generated by computer and contains the child's name in several of the statements.

To whom was the instrument administered?

The questionnaire was mailed to the parents of those students who had been verified by the At-Home Office in Maryland as active participants.

How many times was the instrument administered?

Once. A reminder was sent to parents who had failed to respond to the first mailing.

When was the instrument administered?

The first mailing took place on July 23. The reminder was mailed on August 7.

Who administered the instrument?

Not applicable.

What training did the administrator have?

Not applicable.

Was the instrument administered under standardized conditions?

No.

Were there problems with the instrument or the administration that might affect the validity of the results?

Parents who returned the questionnaire may not be representative of the entire group, although the high return rate (71%) argues against this.

Who developed the instrument?

An evaluation intern, working under the supervision of the Title I and Title I Migrant evaluators.

What reliability and validity data are available for the instrument?

None.

Are there norm data available for interpreting the results?

No.

AT-HOME PARENT QUESTIONNAIRE

Purpose

The Parent Questionnaire was designed to provide data on several aspects of At-Home participation. This information served as a description, in very general terms, of how participating parents and children used the At-Home materials. In addition, the following evaluation question was explored:

Evaluation Question 1-6: Was there any relationship between the way in which participating families used the program materials and subsequent achievement gains?

The Parent Questionnaire was also used to assess the parents' feelings about the program, and thereby provide information relevant to the following evaluation question:

Evaluation Question 1-8: Did participating parents judge the program to be of any benefit?

Attachment B-1 displays the Parent Questionnaire.

Procedure

Using input from the project director and several Title I reading supervisors, as well as information gathered from the home observations (see Appendix A in this report), a list of potential questions was generated. From this initial list, the Title I evaluator, the Title I Migrant evaluator, and the At-Home evaluation intern selected those questions which appeared most important. Because keeping the questionnaire as short as possible was a high priority, questions reflecting similar program dimensions (e.g., AISD's administration of the program) were condensed into single items. Thus, parents could mark more than one response to most of the items.

Once the final format was determined, a computer generated the actual questionnaires. Each questionnaire contained the child's full name at the top, and the child's first name throughout the body of the questionnaire. Parents received one questionnaire for each of their children who participated in the program.

An accompanying letter (see Attachment B-1) was duplicated on AISD stationery. In keeping with the "personalized" style of the questionnaire itself, each cover letter was hand-signed in blue ink. The questionnaires, along with cover letters and stamped, self-addressed return envelopes, were mailed on July 23, 1980. Questionnaires were sent only to those families whose children had been verified as active participants by the At-Home headquarters in Maryland. One memo was mailed for each child in the program; therefore families with more than one participant received multiple questionnaires.

A reminder letter (see Attachment B-2) was prepared for those parents who had not responded to the initial mailing. This letter was sent on August 7. Of the 309 questionnaires sent, 218 were returned (a return rate of 71%).

Results

Responses to Multiple-Choice Items

Figures B-1 to B-11 display the number of respondents who endorsed the various response alternatives. As noted above, parents completed one questionnaire for each of their children who participated in the program, and several families had more than one child in the program. Therefore, "number of respondents" refers to the number of questionnaires received and not the number of families surveyed. The actual output (from Program FREQUENCIES of the SPSS package) is included as Attachment B-4.

Inspection of these figures reveals a large degree of consistency in parents' responses. For example, most were satisfied with the parent training and felt the lesson instructions were easy to understand. Most felt their children enjoyed the lessons and did not need a lot of help doing them. The mother was usually the child's principal helper, and most families completed lessons in one sitting. Only four of 218 respondents reported they had trouble getting help from District personnel when they needed it, and only 5% reported they had trouble getting corrected lessons back from Maryland.

It was initially hoped that the parent questionnaire would supply information relevant to the following evaluation question:

Evaluation Question 1-6: Was there any relationship between the way in which participating families used the program materials and subsequent achievement gains?

Unfortunately, the lack of variability in questionnaire responses meant that this question could not be meaningfully answered.

However, the relationship between certain questionnaire responses and both At-Home session level and grade level were analyzed. Figures B-12 to B-17 display the results of these analyses. Because the four Early Childhood participants were not included, the total sample size for these analyses is smaller than the sample in Figures B-1 to B-11. Inspection of the chi-square values reveals that parental understanding of lesson instructions (Figure B-12) and the expression of a desire for more lessons (Figure B-16) were both significantly related to At-Home session level. More specifically, levels A, B, and D seem to be harder for parents to understand than the other levels; levels A and D elicit fewer expressions of a desire for more lessons than the other levels. Grade level was not significantly related to questionnaire responses.

Responses to Open-Ended Item

The final item on the parent questionnaire invited respondents to "write any other comments about the At-Home program" on the back of the questionnaire. Of the 218 returned questionnaires, nearly half (102) had additional comments written on the back. These comments are listed (exactly as they appeared) in Attachment B-3. These responses are directly relevant to the following evaluation question:

Evaluation Question 1-8: Did participating parents judge the program to be of any benefit?

Inspection of these comments reveals the majority to be very positive. That is, most of the respondents indicated they enjoyed the program and many expressed a wish for its continuation in the future. Different parents tended to emphasize different aspects of the program as particularly important to them. For example, several stated they liked the opportunity to interact with their child and that the experience gave them a better appreciation of the child's strengths and weaknesses. Several thought the program was beneficial in terms of maintaining the child's academic skills during the summer vacation, and many noted that their children enjoyed working on the lessons.

However, parents' written comments were not uniformly positive. A few respondents thought the lessons were too easy for their child; while an equal number thought the lessons were too hard. Several parents wanted to see math lessons in addition to the reading lessons. Two parents said they were unable to get help when they needed it, and one wished that the lessons took longer than 15-20 minutes to complete. One parent was disappointed that her child received the same level the child worked on last summer. Three parents felt the program started too early and that it should not start before school ends. Four parents commented on problems they had communicating with program headquarters in Maryland (e.g., being told that only seven lessons were received when all ten had been sent).

In sum, most parents judged the program to be beneficial, although several had specific suggestions for improving it.

Questionnaire Item	# of Respondents Endorsing Item	% of Respondents Endorsing Item
I think the instructions were easy to understand.	155	71.1
Sometimes the instructions were hard to understand.	38	17.4
(Both responses).	16	7.3
(No response).	9	4.1

Figure B-1. UNDERSTANDING OF LESSON INSTRUCTIONS.

Questionnaire Item	# of Respondents Endorsing Item	% of Respondents Endorsing Item
We had problems getting our corrected lessons back from Maryland.	11	5.0
(No response).	210	95.0

Figure B-2. INTERACTION WITH PROGRAM HEADQUARTERS.

Questionnaire Item	# of Respondents Endorsing Item	% of Respondents Endorsing Item
I wish there were more than ten lessons.	56	25.7
(No response).	162	74.3

Figure B-3. DESIRE FOR MORE LESSONS.

Questionnaire Item	# of Respondents Endorsing Item	% of Respondents Endorsing Item
I was satisfied with the parent training.	171	78.4
I was <u>not</u> satisfied with the parent training.	4	1.8
I did <u>not</u> get any parent training.	24	11.0
(Got no training <u>and</u> satisfied with training).	6	2.8
(No response).	12	5.5

Figure B-4. FEELINGS ABOUT PARENT TRAINING.

Questionnaire Item	# of Respondents Endorsing Item	% of Respondents Endorsing Item
I was able to get help when I needed it.	67	30.7
I was <u>not</u> able to get help when I needed it.	4	1.8
(No response).	147	67.4

Figure B-5. AVAILABILITY OF HELP FOR PARENTS.

Questionnaire Item	# of Respondents Endorsing Item	% of Respondents Endorsing Item
I was told my child might be held back...	6	2.8
(No response).	212	97.2

Figure B-6. NUMBER OF PARENTS PRESSURED TO JOIN.

Questionnaire Item	# of Respondents Endorsing Item	% of Respondents Endorsing Item
We usually did each lesson in one day.	161	73.9
We usually worked on one lesson several times during the week.	23	10.6
(Both responses).	8	3.7
(No response).	26	11.9

Figure B-7. FAMILY WORK STYLE.

Questionnaire Item	# of Respondents Endorsing Item	% of Respondents Endorsing Item
Child needed a lot of help with the lessons.	27	12.4
Child did <u>not</u> need a lot of help with the lessons.	140	64.2
(Both responses).	4	1.8
(No responses).	47	21.7

Figure B-8. AMOUNT OF PARENTAL ASSISTANCE NEEDED BY CHILD.

Questionnaire Item	# of Respondents Endorsing Item	% of Respondents Endorsing Item
Child liked doing the lessons.	173	79.4
Child did <u>not</u> like doing the lessons.	14	6.4
(Both responses).	6	2.8
(No response).	25	11.5

Figure B-9. CHILD'S ENJOYMENT OF LESSONS.

Questionnaire Item	# of Respondents Endorsing Item	% of Respondents Endorsing Item
"Who usually helped child with the lessons?"		
Mother (Mother plus someone else).	133 (48)	61.1 (22.0)
Father (Father plus someone else).	12 (18)	5.5 (8.3)
Sibling (Sibling plus someone else).	4 (24)	1.8 (11.0)
Other (Other plus someone else).	14 (10)	6.4 (4.6)
No One (No one plus someone else).	3 (7)	1.4 (3.2)

Figure B-10. FAMILY MEMBER WHO ASSISTED CHILD.

Questionnaire Item	# of Respondents Endorsing item	% of Respondents Endorsing item
"Has child been in the program before?"		
Yes.	40	18.3
No.	178	81.7

Figure B-11. NUMBER OF REPEAT PARTICIPANTS.

Questionnaire Response	SESSION LEVEL					
	A	A/B	B	C	D	X-Z
Thought the instructions were hard to understand, or <u>both</u> hard and easy to understand.	n 10	8	19	4	9	3
	% (32)	(19)	(42)	(13)	(31)	(11)
Thought the instructions were easy to understand.	n 21	35	26	26	20	24
	% (68)	(81)	(58)	(87)	(69)	(89)

$$\chi^2 = 14.05, p < .05$$

Figure B-12. UNDERSTANDING OF INSTRUCTIONS BY SESSION LEVEL. Percents refer to column percents.

Questionnaire Response	1979-80 GRADE LEVEL					
	K	1	2	3	4	5
Thought the instructions were hard to understand, or <u>both</u> hard and easy to understand.	n 9	18	9	9	4	4
	% (31)	(29)	(29)	(30)	(17)	(14)
Thought the instructions were easy to understand.	n 20	44	22	21	20	25
	% (69)	(71)	(71)	(70)	(83)	(86)

$$\chi^2 = 4.42, p > .10$$

Figure B-13. UNDERSTANDING OF INSTRUCTIONS BY GRADE LEVEL. Percents refer to column percents.

Questionnaire Response		SESSION LEVEL					
		A	A/B	B	C	D	X-Z
Child did <u>not</u> like doing the lessons.	n	3	1	2	1	3	4
	%	(10)	(2.5)	(5)	(4)	(12)	(17)
Child liked doing the lessons.	n	27	40	35	26	22	20
	%	(90)	(97.5)	(95)	(96)	(88)	(83)

$$\chi^2 = 6.13, p > .10$$

Figure B-14. CHILD'S ENJOYMENT OF LESSONS BY SESSION LEVEL. Percents refer to column percents.

Questionnaire Response		1979-80 GRADE LEVEL					
		K	1	2	3	4	5
Child did <u>not</u> like doing the lessons.	n	3	1	2	2	4	2
	%	(11)	(2)	(7)	(8)	(18)	(8)
Child liked doing the lessons.	n	25	56	26	23	18	22
	%	(89)	(98)	(93)	(92)	(82)	(92)

$$\chi^2 = 6.69, p > .10$$

Figure B-15. CHILD'S ENJOYMENT OF LESSONS BY GRADE LEVEL. Percents refer to column percents.

Questionnaire Response	SESSION LEVEL					
	A	A/B	B	C	D	X-Z
I wish there were more than ten lessons.	n 4 % (13)	15 (34)	16 (32)	11 (35)	2 (7)	7 (24)
No Response.	n 27 % (87)	29 (66)	34 (68)	20 (65)	27 (93)	22 (76)

$\chi^2 = 12.28, p < .05$

Figure B-16. DESIRE FOR MORE LESSONS BY SESSION LEVEL. Percents refer to column percents.

Questionnaire Response	1979-80 GRADE LEVEL					
	K	1	2	3	4	5
I wish there were more than ten lessons.	n 3 % (10)	20 (31)	11 (31)	6 (20)	9 (36)	6 (20)
No Response.	n 26 % (90)	44 (69)	25 (69)	24 (80)	16 (64)	24 (80)

$\chi^2 = 7.47, p > .10$

Figure B-17. DESIRE FOR MORE LESSONS BY GRADE LEVEL. Percents refer to column percents.

AUSTIN INDEPENDENT SCHOOL DISTRICT
OFFICE OF RESEARCH AND EVALUATION



July 23, 1980

Dear At-Home Parent:

I hope you have enjoyed working with the At-Home Program this summer. I believe that parents who actively participate in such a program show an interest in education which is an important part of their children's success in school.

My job is to evaluate this summer's At-Home Program. I will help the At-Home staff decide what is good about the program, and also what parts could be improved. In order to do this, I need your help.

Please take a few minutes to answer the enclosed questionnaire. I know you probably filled out another one earlier which you mailed to Maryland. However, this questionnaire will be sent directly to me at the Office of Research and Evaluation. Your answers will not be seen by anyone except me. Of course, how you answer will not affect whether your child goes to the banquet or gets a T-shirt.

Since many families have more than one child participating in the program, I have given you one questionnaire for each child you have in the program this summer. You will find your child's name in the directions for the questionnaire.

Your answers are very important to me. Since you have worked with the program for several weeks, you know much more about it than I do. If you have any questions, please call me. My phone number is 458-1227. With your help, the At-Home Program will be even better in the years ahead.

Sincerely,

Dave Welsh

Dave Welsh, At-Home Intern

P.S. For your convenience, I have included a stamped, self-addressed envelope you can use to return the questionnaire.

6100 GUADALUPE, AUSTIN, TEXAS 78752 512 / 458-1227

AUSTIN INDEPENDENT SCHOOL DISTRICT
OFFICE OF RESEARCH AND EVALUATION

AT-HOME QUESTIONNAIRE

DIRECTIONS: READ EACH QUESTION CAREFULLY. YOU CAN MARK MORE THAN ONE ANSWER FOR EACH QUESTION. THESE QUESTIONS ARE ABOUT YOU AND PATRICK.

REMEMBER THAT YOU CAN MARK MORE THAN ONE ANSWER FOR EACH QUESTION.

1. THINK ABOUT THE LESSONS YOU AND PATRICK WORKED ON THIS SUMMER. THEN READ THE STATEMENTS BELOW. IF YOU AGREE WITH A STATEMENT, FILL IN THE CIRCLE IN FRONT OF IT.

- ☐ I THINK THE INSTRUCTIONS WERE EASY TO UNDERSTAND.
☐ SOMETIMES THE INSTRUCTIONS WERE HARD TO UNDERSTAND.
☐ WE HAD PROBLEMS GETTING OUR CORRECTED LESSONS BACK FROM MARYLAND.
☐ I WISH THERE WERE MORE THAN TEN LESSONS.

2. THINK ABOUT THE WAY THE AT-HOME PROGRAM IS RUN BY THE AUSTIN SCHOOL DISTRICT. THEN READ THE STATEMENTS BELOW. IF YOU AGREE WITH A STATEMENT, FILL IN THE CIRCLE IN FRONT OF IT.

- ☐ I WAS SATISFIED WITH THE PARENT TRAINING.
☐ I WAS NOT SATISFIED WITH THE PARENT TRAINING.
☐ I DID NOT GET ANY PARENT TRAINING.
☐ I WAS ABLE TO GET HELP WHEN I NEEDED IT.
☐ I WAS NOT ABLE TO GET HELP WHEN I NEEDED IT.
☐ I WAS TOLD PATRICK MIGHT BE HELD BACK IN SCHOOL IF WE DID NOT JOIN THE AT-HOME PROGRAM.

3. THINK ABOUT THE WAY YOU AND PATRICK WORKED ON THE LESSONS THIS SUMMER. THEN READ THE STATEMENTS BELOW. IF A STATEMENT IS TRUE, FILL IN THE CIRCLE IN FRONT OF IT.

- ☐ WE USUALLY DID EACH LESSON IN ONE DAY.
☐ WE USUALLY WORKED ON ONE LESSON SEVERAL TIMES DURING THE WEEK.
☐ PATRICK NEEDED A LOT OF HELP WITH THE LESSONS.
☐ PATRICK DID NOT NEED A LOT OF HELP WITH THE LESSONS.
☐ PATRICK LIKED DOING THE LESSONS.
☐ PATRICK DID NOT LIKE DOING THE LESSONS.

4. WHO USUALLY HELPED PATRICK WITH THE LESSONS?

- ☐ FATHER ☐ MOTHER ☐ SISTER OR BROTHER ☐ OTHER ☐ NO ONE

5. HAS PATRICK BEEN IN THE AT-HOME PROGRAM BEFORE?

- ☐ YES ☐ NO

ON THE BACK OF THIS QUESTIONNAIRE, PLEASE WRITE ANY OTHER COMMENTS ABOUT THE AT-HOME PROGRAM.

AUSTIN INDEPENDENT SCHOOL DISTRICT
OFFICE OF RESEARCH AND EVALUATION



August 7, 1980

A Reminder --

Dear At-Home Parent,

A few weeks ago I sent you a questionnaire about the At-Home Program. Because I have not yet received your reply, I am sending you this reminder letter and one questionnaire for each child you have in the program.

Your answers are very important to me. Because you have worked with the program all summer, you know much more about it than I do. Your answers will help me decide what is good about the program, and also what parts could be made better.

Please take a few minutes to fill out this questionnaire, and then return it in the stamped, self-addressed envelope. If you have any questions, call me at 458-1227. Remember that your answers will not be seen by anyone except me, and will not affect whether your child gets a T-shirt or goes to the banquet.

Sincerely,

Dave Welsh

Dave Welsh, Evaluation Intern

P.S. If you have already sent me your questionnaire, please ignore this letter.

Thanks for your help!

4100 GUADALUPE, AUSTIN, TEXAS 78752 512 / 458-1227

VERBATIM COMMENTS FROM AT-HOME PARENT QUESTIONNAIRE

The following written comments from parents were reproduced just as they were written so that their meaning and impact would not be unintentionally altered. Readers may judge for themselves the accuracy of the conclusions contained in the text of this appendix.

80.61

1. It is a nice program to have. I wish they keep them going.
2. I do think the At-Home Program is very helpful and effective; however, we feel to add more lessons would be a mistake. A child with learning difficulties needs periods of 'freedom' (summer vacation) from responsibilities and learning pressures just as children who learn easier do.

In _____ particular case he enjoyed most of the At-Home Program and entered in to it with a great deal of enthusiasm, although I feel it would have been better if we could have waited until a week or two after school closed before beginning the extra work.

I realize that children with learning difficulties need extra help and must work harder but I feel that this should be handled with the least amount of pressure because in a child with learning difficulties pressure produces frustration.

As a whole we gained a great deal from the program and would like to participate again and would recommend it highly to others.

3. _____ enjoyed the lessons very much. She looked forward to doing them each week. And I think they will help her in the coming year.

Thank you for giving me more of a chance to help our daughter at home.

4. She enjoyed it and thought it was easy.
5. I enjoyed working with _____ in the "At-Home Program." I think this helped him to keep up his skills. However I feel the program should be started the week after _____ was out of school and lasted every week during the summer. The lessons were rather easy for _____ and only took about 30 minutes.

I'm glad to see the schools trying to coordinate a program with the parents. I feel that the children will be closer to their parents and in turn the parents will know a little bit about the learning habits of their child.

Thanks for allowing _____ and I to take part in this "At-Home Program." I hope the program continues next year.

6. They love the lessons and wanted to do all of them at one time. Hope you have them next summer.
7. I was only disappointed when a couple of times _____ and I had trouble understanding some of the "extra" work he was sent. I didn't think there was sufficient instructions for that work. When I wrote a note to the instructor in Maryland about the problems that we did not understand -- we never heard from her about it. Otherwise, I think _____ and I really benefitted from this program and wish we continue it next year.

80.61

8. My child and I enjoyed working in this program. _____ has been in the program for 3 years and she looks forward to it every summer. My younger daughter _____ says she would also like to take part in the program. I hope the at home program continues to be a success. And lasts for many more years. I'm looking forward to our secession.
9. I think the at-home-program is great. I enjoyed it very much and so did _____. I only wished that my son could have taken this lesson this summer. He likes working with the lesson too. He had it year before last but not this year. I really do think that these lesson really helps. So keep up the good work.
10. We had a lot of fun with the lessons, and _____. We feel we could do more lessons and will be interested in more At home programs. The only problems we had were getting the lessons mailed on time (we had a very busy summer). Thank you Mr. Welsh, and we hope to do more programs in the future.
11. Both _____ and I enjoyed the program very much, because I could spend time helping her, and she was very happy when she got the lessons back. If I would had known about this program before I would have enroll her last year. I hope that they will continue this program again.
12. _____ will be going to Brentwood again next year and I have learned that Brentwood will not be in the At-Home Program next year. I am really disappointed. _____ thoroughly enjoyed the lessons & looked forward to doing them each week. There was one lesson - #5 that gave _____ a great deal of trouble. I felt it was much too hard for him. None of the other lessons gave him much trouble at all. I do wish _____ could be in this program next year.
13. _____ enjoyed the first two lessons. After that he did not like the program because he didn't want to take the time to read and answer the questions. Otherwise, I think this is a helpful program for the kids.
14. I think it was very interested for her and me because I learned a lot from it also. Hope this program will continue not only for during the summer, but also for school time.
15. I enjoy the at home Program this summer _____ enjoy to very much. Thank to the at home Program.
16. I felt the program was fine, and could have been a little bit harder with more reading stories in it. The math part was a surprise, although it was great it really help _____ a lot more.
17. Good project to get parents involved with working with their children on school work. Shows child that parent thinks school work is important.
18. _____ and the family went on vacation three weeks ago. She did not resume the program when we returned. So, she did not complete the At-Home Program.

80.61

19. I think _____ learned a lot of new words or the meanings of simple everyday words that i Thought she knew. I am very pleased because _____ is ONE of my girls who really needed this kind of program. She was very slow in school two years ago, but now she did very well at Pleasant Hill in 79-80.
20. I would like to say is that I enjoyed this program very much. I wish they have this program again.
21. For the most part it was a good experience working together. I learned _____ strengths and weaknesses -- and sometimes it was frustrating for both of us.

The only suggestion for improving the program would be to start it later in the summer (rather than in May while school is still going on) and have it continue further into the summer -- hopefully up to August. This way we were still getting through school in May, having extra lessons, and now it's the middle of July and the summer program is over. It would be beneficial, I think, to have a continuum built so that when school starts, the 'rustiness' is not there. I'm sure this is a major objective of the At-Home Program, but the timing seems to negate, at least in part, this objective.

The rewards, though, of the banquet and T-shirt have been a real incentive for _____. He's been working on the lessons for his own sake, but knowing there's a reward at the end has really helped.

22. This program helped _____ keep up the study habits he had already learned in first grade and I feel he's that much more prepared to start 2nd grade. It could have been longer & he _____ could have handled more difficult work.

Thank you for the program. Please continue it.

23. _____ enjoy the program very much and she really looked forward to doing each lesson, in fact, some weeks she wanted to do two lesson at a time. The only trouble she had was toward the end of the program she had a little trouble understanding the test and it cause her to make more mistakes.
24. _____ has enjoyed this program and looks forward to getting his tests back in the mail. The only lesson he had any trouble with at all was Assignment 7A--upper and lower case letters. We worked on it a little longer than the rest and I will be reviewing him on that before next school year.

I'm pleased with this program.

25. I, _____, mother of _____, really enjoyed the At-Home Program. I enjoyed working with my daughter very much. The program even helped me a little, it was fun and educational. I found out my daughter knew more than I expected. We hope the program continues.

80.61

26. _____ is only six I have to read the instructions and explain the questions.
- I like these At-Home lesson they are working well with my two four (4) year old twin daughter which will be five (5) August 22, and will be intering Norman this school year. They also enjoy the lessons.
27. Both of my girl's enjoyed the program but they would finish their lesson in one hour & then they were anxious to do another lesson. They felt one lesson a week was too little. They didn't like waiting so long for another one. this is the only complaint they had.
28. We enjoy the program. It help me with _____. he is a bright child I can help him now.
29. Seems like the first two lessons were returned immediately and then took awhile for the others to come back.
30. It would be good if we could have a program during the school year. _____ is weak in Math so the lessons she received on Math were a great help. Sometimes the instructions to the Math was confusing. We both enjoyed the experience and would like to see it continued.
- P.S. We would like for _____ to continue in the program so that we can help her with her weakness. I try to help her with reading and her dad helps some with Math. We also work with the teacher during the year to keep up with her progress.
31. This program seems like a great idea for the children who have a hard time learning their reading lessons in school. It would be a shame if they had to lose all they had gained just because of summer break.
- _____ seems to have been put in a little higher level than he had been in at school. Instead of repeating the same things he had already learned in the school year, he was learning new things toward the end of the program. This didn't create a problem (if it had I would've gotten in touch with the representative here). The only problem was my lack of ability to explain the instructions to him. After going over them a few times, we both "saw the light" and were off and running.
- Thank you for your program.
32. The program can really help the childred learn. The only problem I had with _____ was finding the right time for her to do the lesson. Because sometimes she was to busy playing and didn't feel like working out her lesson. I think that in the morning was the good time for her to work her lesson.
33. 1. In _____ case I wish there were more than 10 lessons (if done in summer) as she needs the extra help.
2. We never needed help, so I can't say for sure, but I imagine it would have been there.
3. _____ liked the lessons fine, and got through them quickly. It was the rhymes she had trouble with.

80.61

34. _____ had to be told to do the lessons, beacuse when she would receive the corrections she would put the letter in the folder and sometimes wouldn't tell me that the corrections had come during the week, so I would put her right to do the lessons.

35. Lesson with vowel/syllables Instruction with clap hands and mark X on paper was OK. When page four had this same note plus nod head and mark circle word, _____ would get confused with short attention spand.

Did not get Lesson Seven back. Lost in mail.

Had a person to contact in case we needed help.

The beginning lessons were not as hard for _____. More time had to be spend on each lesson as we progressed. When we finished the Tenth lesson, _____ was disappointed there were no more lessons to do.

I enjoyed working with _____. It gave me an idea of the possible problems which might be occuring or where additional help is needed. Thank you for letting us participate.

36. It's a pretty good program and we enjoyed it. Thank you.

37. It's a very good Program.

38. Some of the lesson was so simple _____ wanted more to do. The extra lesson that they sent wasn't that interesting.

39. I would have liked more extra work.

40. The only comment I like to make is that this is a wonderful program for both the child and the parents, it also helps the parents find out what his child needs to work on a little bit more on.

41. _____ tries very hard. She dose most of lesson on her own.

She is a hard worker. But _____ just dosent pay attention or read directions very well. This causes _____ to ask question. She is a very slow learner. But she tries very hard. Reading I'snt one of her favorite hobbies.

_____ is very good at understanding. With a little help. She also likes to read.

_____ dose good work. She catches on very quickly. She likes to read.

_____ is doing fine with the At Homeprogram She just needs someone to explain it to her. She dose the rest.

42. I like the at-Home program.

80.61

43. I think that all parents could join the at-home program and that they would really enjoy working with their children. Also it will help them remember some of the things that they have learned in school. So that they will not forget what they learn in school.
44. Was satisfied with the program.
45. _____ and I enjoyed working together, I think this will be a great help to her going into fourth grade.
46. _____ and I did like the at home program. _____ keeps asking me about the T-shirt. I think thats what he was really working for.
47. I had several questions about the program. I called the number given in the training program but my calls were not returned. I called several times.
48. We both enjoyed working together on the lessons. Sometimes, _____ could not understand the instructions, but when I repeated them to her, they were easier for her. I think the at-Home-Program is just wonderful. I know my child has kept up with her reading all summer by working with the program.
49. I liked the lessons. it was an experience, but I had trouble with them myself, and I just did not have that much time to it down with her and my other daughter since I have two other smaller children at home.
- Other than that the program seems very helpful.
50. I enjoyed helping or working with her when ever I had the chance but it was kind of hard to understand. It was kind of hard to find the time for the lessons I have four kids and its kind of hard to give one child your individual time.
- Other than that the program is very helpful.
51. I myself as a parent really in trully injoy working with my kids if time permit. But we both enjoyed it. And hope very much that the same program will be available to his baby brother and thank you again for the program.
52. We were pleased and happy to participate. The money part was the hardest for _____. The rest was fairly easy for her.
53. _____ didnt like the extry work. When he had to draw he didnt wont to do it, because he sead he couldnt draw that good. Most of the work had at the answer right their, but he would guess at the question. The program was great it improved his reading a great deal.

80.61

54. _____ sometimes dont understand her lessons. But alfre a while she come to a understanding But we haye to help our child. We are prout of _____ and _____. we let help our children with Home Program. hope lot of mother help. hope to keep up the good work. P.S. sometime I late because my husband is Ill.

(other child)

We injoying with together cause _____ love to read and I love to teach my son to read, I just love this 'home program,' my son and I have a understanding on the program. Let keep up the good work.

55. I think the at home program is ok and beside _____ like to study. But got behind on the program cause we when on vacation. Sometime I understand the work and I had trouble with it. Thank you.

56. _____ and I liked the at home program very much. In the first few lessons she needed more help, toward the end she was able to work alone, asking only a few questions. With one exception the math. Anita had to get her sister's help with the math.

The at home program helps to keep the mind alert during the summer. Thanks.

57. This Program is a very good one for the children it keeps them interested in school. and it is even better when you make it a game at home when you get them to study.
58. We were pleased and happy to participate. The money part was the hardest for _____. The rest was fairly easy for her.
59. I think the at-Home program is a help to a child which is slow in school and need some extra attention. It help the parent understand the probobling the teachers has at school with her child. It help the child spend sometime with her parent which, helps she maynot get to do if this wasn't a part of her summer activitys.
60. The only real problem I has was remembering to send her homework on the same day each week. Otherwise than that every thing went alright. Thank you very much.
61. I would like to see more of at Home Programs for children, also the program could include some math & Spelling. This age child is just begining to learn math. These lessons have helped keep the child aware of what she learned in the school year.
62. I thank you should have some math such as they have in the grade level they are in, I find that Math & reading is usualy the weak point, in most of our young people today. Working with young adults in my line of work my waitress can't add or muply, to get the state tax on the guest checks.
63. I had a little trouble finding items that they needed and helping _____ be cerative in some areas. It was my fault that the lessons where not received to you on time.

80.61

64. (same parent as # 63)

_____ had trouble with some of the work (the math mostly). Sometimes I could not make her understand what I wanted her to do. It was my fault that the lessons were late to you. Also Alice was sick most of this summer.

65. _____ and I really enjoyed doing the Home Program. Joanna has really improve in her reading.

66. We are not finished with lessons because we were out of town for three weeks.

67. Will the program be extended? We have not completed it.

68. We really enjoyed helping Andrea work with the at home prog. We got to learn things out of it also. it was fun.

69. Sorry that I have taken so long in returning this. The At-Home-Program ask that we set aside 1 hour. It does not take _____ that long to do the lesson. I sometimes wish that they took a little longer than 15 to 20 minutes.

70. The lessons were pretty easy for _____ and I wish they had been a little more challenging. She did as many a week as I let her. so we had them finished before the mail in days'.

I feel with _____ that the lessons could have been a little more challenging also. I was glad for the math sheets returned with the lessons.

71. _____ is very active in summer programs that he had to be reminded of the lesson. Maybe there where 1 or 2 instruction he didn't understand.

I like the At Home programs to have a little more math involve in it. It keep his mind open and he will not forget what he learn.

72. Thank you very much for the at-Home program, Ace learned a lot and hopefully he will be able to keep up in school this fall.

73. _____ and I really enjoyed doing the At-Home-Program. I hope it will be something we can look forward to every summer.

P.S. Sorry this is so late but we just arrived from vacation and it was in our stack of mail

74. I think 10 lessons were plenty, but I would like to have seen materials to extend the lessons. For example, in some exercises we circled the words that _____ could call correctly. However, there were no suggestions or supplemental activities for teaching the words she didn't know.

In other lessons _____ was asked to give a title to a story or summarize a main idea. She really was unable to do this without assistance. I would like to have had some suggestions on teaching her to do this without virtually just giving her the answers.

In general, the program was well written and simple to use.

80.61

75. _____ and I both enjoyed the program, we are usually working or doing some kind of lesson or something together with my grandson since all the other children have grownup, it was a nice experience but it wasn't new for us, because we usually include our children in all of our activities especially in the summer because we are all at home for the summer and we spend as much time as we can just doing things together. We both enjoyed it.
76. It would be helpful to have a booklet besides the test paper.
77. I think the program is a very good idea (especially when school is out and these young children are still geared toward developing their minds). _____ looked forward to working on these lessons and I could tell it was very self satisfying for him to show his mother how smart he was. He required very little help after explaining the questions and sometimes, knew what to do with practically no explanation at all.

Unfortunately, some problems developed at home that interfered with _____ finishing the lessons, but on the whole, I think it was very beneficial.

78. Last year _____ did really great on the at-Home-Lessons. It was my impression that each year (according to age and grade) that the program would be modified. So, he was given the same lessons as last year. If this is the case, I would strongly suggest that some changes be made. Otherwise, I find no other faults.
79. I enjoyed the At-Home Program. It let me know how _____ answer her questions in her school class and how she thinks about her work. I would like more Programs like this. The programs helps me to be able to study along with her and enjoy it. I was amazed at her understanding of her lessons.
80. My only regret was that I was having too many problems at home that I wasn't able to continue the lessons with my children. Perhaps I'll have a chance again another year in being able to help my children study.
81. The lessons were far too easy for _____. When the math sheet arrived _____ rebelled against the lessons entirely. She is and has been in the past over whelmed by the amount of math problems on an entire page.

_____ has continued working with a reading tutor from St. Edward's University through out the summer at a third grade level. Therefore I did not force this program on her since it was below the level she is successful in already.

The three lessons she did complete took maybe 5 minutes a piece and did not warrant my help in any way.

82. I think the At-Home Program is very good. Being summer, they are always doing this and that, going here and there. We might of done that was required of the program. But it was very good, He _____ liked doing it.

80.61

83. I sent in all ten lessons and was told that they had only received seven.
84. This summer I was away training for my job. I didn't have anyone to take the time with _____ and her lesson. She was with her grandparents and they are a little too old to help her with the lesson.
85. _____ and I completed all ten lessons but did not get to send them in because I had to leave town due to illness in the family. So we did not get to send them all in by the deadline but I hope they will have it next summer she sure like it.
86. 1. _____ does like to work with the at home program if he understand what he is suppose to do.
2. I think _____ fail the third grade last semester because lack of communication between him and his room teacher. Course I know with 30 students in one room, the teacher can't spent too much time with one student. But with plain English and a little patient, _____ can make the 3rd grade this year.
87. I wish there had been more math lessons.
88. By the end of July, _____ was beginning to become disinterested in taking time to do the lesson with so many other summer activities.
- I feel the extra work sent at intervals wasn't necessary. After all, the children go to school for 9 months and don't want to spend most of the summer dealing with school work especially a six yr old. She has enjoyed it & benefited a lot from enrichment and enlightenment of course.
89. I enjoyed giving the lesson to _____, and _____ really enjoyed doing on her own. _____ said the lesson were pretty easy--if y'all have it again she'd like something a little harder--something that she'll read and think more about it--before answering. This was a good ideal of At Home Program. I hope _____ will keep on, on the program. We both really enjoyed. Sorry for not mailing this sooner.
90. In the beginning _____ was enjoying the lessons and later the lesson got a little complex and he seemed to stop enjoying them.
91. Both _____ and I enjoy the program I learn lots from the lesson just much as _____ did we love it Thank you much
92. _____ and I did not complete the program -- I was taking care of my father who was terminally ill.
93. _____ and I did not complete the lessons during the summer due to some family problems which occurred. The program is very good, but _____ did have difficulty understanding much of it, possibly it was too advanced for her. I don't remember her having come across much of it in her homework and it was difficult for me to explain clearly on her level, since I'm not a teacher, myself. I'm sure next year will be better for her since she has now been exposed to some of it.

80.61

94. Both _____ and I enjoyed working with the At Home Program. I think it should have been offered many years before. It's the ideal thing to keep the mine in function during the summer months.
95. _____ enjoyed very much doing his lesson. he was very pleased when his lessons came back to see what he had scored.
96. _____ was not able to finish the program. She went to spend ½ the summer with her grandmother and she cannot read. I was very pleased with the program (the few lessons we did together) Thank you for all your cooperation.
97. I feel that the child should have been able to send in more than one lesson a week. A working parent's schedule may not allow 1 lesson per week. Sometimes we had more time than others and would have been able to do more than one lesson and send it in. Otherwise I think the lessons were fine and I enjoyed doing them.
98. _____ lessons were slow in being returned. As a result of this factor _____ lost interest in the program.

I was not satisfied with parent training. I feel the kits should have been explained more fully. As a working mother I found I had no means of reaching anyone at the Ed. Office during the time I wanted to ask questions.

Perhaps this program may have been of benefit to some children--
_____ didn't appear to improve.

_____ was then placed in a one to one remedial reading class for the rest of the summer. There has been an improvement.

99. _____ will not go to Ridgetop next year. We have move to ----- she will go to Jane Landford. I don't know if they will have this program. I didn't know we were going to move
100. We really enjoyed working with the At Home Program I think that was very helpful for me and the children.
101. Although the lessons were very easy to . I found that if were not finished, it was due on me.
102. I think _____ enjoyed the work. It didn't last long, but it helps a lots.

RUN NAME SECOND RUN OF PARENT QUESTIONNAIRE
VARIABLE LIST INSTRUCT,MARYLAND,MORE,TRAINING,SUPPORT,COERCION,WORKSTYL,
 HELPNED,LINED,HELPER,REPEATER
INPUT METHOD CARD
NO OF CASES UNKNOWN
INPUT FORMAT F10D10,F2.0,F1.0,F1.0,F3.0,F2.0,F1.0,F2.0,2F2.0,F5.0,F1.0)

ACCORDING TO YOUR INPUT FORMAT, VARIABLES ARE TO BE READ AS FOLLOWS

VARIABLE	FORMAT	RECORD	COLUMNS
INSTRUCT	F 2. 0	1	11- 12
MARYLAND	F 1. 0	1	13- 13
MORE	F 1. 0	1	14- 14
TRAINING	F 5. 0	1	15- 17
SUPPORT	F 2. 0	1	18- 19
COERCION	F 1. 0	1	20- 20
WORKSTYL	F 2. 0	1	21- 22
HELPNED	F 2. 0	1	23- 24
LINED	F 2. 0	1	25- 26
HELPER	F 5. 0	1	27- 31
REPEATER	F 1. 0	1	32- 32

THE INPUT FORMAT PROVIDES FOR 11 VARIABLES. 11 WILL BE READ.

IT PROVIDES FOR 1 RECORDS (CARDS) PER CASE.

A MAXIMUM OF 32 COLUMNS ARE USED ON A RECORD.

MISSING VALUES TRAINING (0)/SUPPORT (0)/COERCION (0)/LINED (0)/
 HELPNED (0)/HELPER (0)/INSTRUCT (0)/MARYLAND (0)/
VARIABLES INSTRUCT, UNDERSTANDING OF INSTRUCTIONS/
 MARYLAND, PROBLEMS GETTING LESSONS BACK/
 MORE, DESIRE FOR MORE LESSONS/
 SUPPORT, AVAILABILITY OF HELP WHEN NEEDED/
 COERCION, TOLD CHILD MIGHT FAIL/
 WORKSTYL, HOW DID FAMILY WORK ON LESSONS/
 HELPNED, HOW MUCH HELP DID CHILD NEED/
 LINED, DID CHILD LIKE LESSONS/

SECOND RUN OF PARTIAL QUESTIONNAIRE

10 DEC 80

13.00.12.

80.61

HELPER, WHO HELPED CHILD DO LESSONS/
REPEATER, WAS CHILD IN PROGRAM BEFORE/
VALUE LABELS INSTRUCT (10) EASY TO UNDERSTAND (1)HARD TO UNDERSTAND(11)BOTH/
BOYLAND (1)YES (2) NO/MORE (1)YES (2)NO/
TRAINING (10)SATISFIED (10)NOT SATISFIED (1)GOI NONE
(11) GOI NONE, SATISFIED/
SUPPORT (10)YES (11)NO/COERCION (1)YES (2)NO/
DOMESTYLE (10)DID EACH LESSON IN ONE DAY (1)DURING WEEK OFTEN/
HELPED (10)A LOT (1)NOT A LOT/LIKED (10)YES (1)NO/
HELPER (1000)FATHER (1002)MOTHER (1004)SIBLING (10)OTHER
(1)NO ONE/REPEATER (2)NO (1)YES/

FREQUENCIES GENERAL=INSTRUCT TO REPEATER

OPTIONS 3,8,9

READ INPUT DATA

FREQUENCIES - INITIAL C-ALLS FOR 1097 VALUES

MAXIMUM C-ALLS FOR 18977 VALUES

OPTION = 3

PRINT OUTPUT IN 0.5 X 11 FORM

OPTION = 3

PRINT HISTOGRAMS

OPTION = 4

PRINT TABLE OF CONTENTS

END OF FILE ON FILE

AFTER READING 2ND CASES FROM SUPPLY IMAGE

Attachment B-4
(Page 2 of 8)

63

SECOND PART OF PARENT QUESTIONNAIRE

10 DEC OF 15.00.12. PAGE 5

FILE - 10.00.12 (CREATED - 10 DEC 07)

INSTRUCT UNDERSTANDING OF INSTRUCTIONS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	COM FREQ (PCT)
HARD TO UNDERSTAND	1.	50	17.4	10.2	10.2
EASY TO UNDERSTAND	10.	155	71.1	74.2	92.5
BOTH	11.	15	7.5	7.7	100.0
	BLANK	9	4.1	MISSING	
		-----	-----	-----	
	TOTAL	210	100.0	100.0	

SECOND PART OF PARENT QUESTIONNAIRE

10 DEC OF 15.00.12. PAGE 5

FILE - 10.00.12 (CREATED - 10 DEC 07)

PARENTS ARE GETTING LESSONS BACK

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	COM FREQ (PCT)
YES	1.	11	5.0	100.0	100.0
	BLANK	207	95.0	MISSING	
		-----	-----	-----	
	TOTAL	210	100.0	100.0	

80.61

Attachment B-4
(Page 4 of 8)

SECOND ROUND PARENT QUESTIONNAIRE

11 DEC 0 13.00.12. PAGE 7

FILE - NO. 100 (CREATED - 11 DEC 0)

MORE LESSONS FOR MORE LESSONS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	COM FREQ (PCT)
	0	102	74.3	74.3	74.3
YES	1	50	25.7	25.7	100.0
		-----	-----	-----	
	TOTAL	210	100.0	100.0	

SECOND ROUND PARENT QUESTIONNAIRE

10 DEC 0 13.00.12. PAGE 9

FILE - NO. 100 (CREATED - 10 DEC 0)

TRAINING

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	COM FREQ (PCT)
GOI MORE	1	24	11.0	11.7	11.7
NOT SATISFIED	10	4	1.9	1.9	13.6
SATISFIED	100	171	78.4	63.0	70.0
GOI AND SATISFIED	101	0	0.0	2.9	90.5
	111	1	.5	.5	100.0
	BLANK	12	5.5	MISSING	
		-----	-----	-----	
	TOTAL	210	100.0	100.0	

SEC00000000 PAGE 1 QUESTIONNAIRE

10 DEC 00 15.07.12. PAGE 11

FILE - NAME - (CREATED - 10 DEC 00)

SUPPORT - AVAILABILITY OF HELP WHEN NEEDED

CATEGORY LEVEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	COM FREQ (PCT)
NO	1.	4	1.0	5.0	5.0
YES	10.	97	97.4	94.9	100.0
	BLANK	147	97.4	MISSING	
		-----	-----	-----	
	TOTAL	215	100.0	100.0	

SEC00000000 PAGE 1 QUESTIONNAIRE

10 DEC 00 15.07.12. PAGE 15

FILE - NAME - (CREATED - 10 DEC 00)

COVERED - TELL OTHERS ABOUT THIS

CATEGORY LEVEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	COM FREQ (PCT)
YES	1.	9	2.0	10.0	100.0
	BLANK	212	97.2	MISSING	
		-----	-----	-----	
	TOTAL	219	100.0	100.0	

SECONDARY PAGE 1 QUESTIONNAIRE

10 DEC 01 13.00.12. PAGE 15

FILE - WORKFILE (CREATED - 10 DEC 01)

WORKSTYLE DID WITH FAMILY FROM THE LESSONS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCI)	ADJUSTED FREQ (PCI)	CUM FREQ (PCI)
	0.	20	11.9	11.9	11.9
DURING LESSON	1.	23	13.0	13.0	22.5
DID EACH LESSON 1.0	10.	101	73.9	73.9	90.5
	11.	0	5.7	5.7	100.0
		-----	-----	-----	
	TOTAL	215	100.0	100.0	

SECONDARY PAGE 1 QUESTIONNAIRE

10 DEC 01 13.00.12. PAGE 17

FILE - WORKFILE (CREATED - 10 DEC 01)

HELP/END NOT MUCH HELP DID CHILD NEED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCI)	ADJUSTED FREQ (PCI)	CUM FREQ (PCI)
NOT A LOT	1.	19	8.8	8.8	8.8
A LOT	10.	27	12.4	15.0	23.7
	11.	4	1.8	2.5	100.0
		-----	-----	-----	
	TOTAL	47	21.0	26.3	
		-----	-----	-----	
	TOTAL	215	100.0	100.0	

SECOND REPORT OF PARENT QUESTIONNAIRE

11 DEC 01 15.00.12. PAGE 19

FILE - NAME (CREATED - 11 DEC 01)

LIPED DID CHILD LIKE LESSONS

CATEGORY LEVEL	CODE	ABSOLUTE FREQ	RELATIVE	ADJUSTED	COM
			FREQ (PCT)	FREQ (PCT)	FREQ (PCT)
NO	1.	114	6.4	7.3	7.3
YES	10.	175	79.4	89.6	95.9
	11.	6	2.6	5.1	100.0
	BLANK	23	11.5	MISSING	
	TOTAL	218	100.0	100.0	

SECOND REPORT OF PARENT QUESTIONNAIRE

11 DEC 01 15.00.12. PAGE 23

FILE - NAME (CREATED - 11 DEC 01)

REPEATER AS CHILD IN PROGRAM BEFORE

CATEGORY LEVEL	CODE	ABSOLUTE FREQ	RELATIVE	ADJUSTED	COM
			FREQ (PCT)	FREQ (PCT)	FREQ (PCT)
NO	1.	170	51.7	51.7	51.7
YES	10.	15	18.5	18.5	100.0
	TOTAL	215	100.0	100.0	

SECOND PART OF PARENT QUESTIONNAIRE 10 DEC 00 15.00.12. PAGE 21

FILE = 00000000 (CREATED = 10 DEC 00)

HELPED NO OTHER CHILD OR LESSONS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO CHILD	1.	5	1.4	1.4	1.4
OTHER	10.	14	6.4	6.4	7.8
Siblings	100.	4	1.8	1.8	9.6
MOTHER	1000.	155	61.8	61.8	70.6
	1001.	4	1.8	1.8	72.5
	1002.	5	3.7	3.7	76.1
	1003.	1	.5	.5	76.6
	1100.	21	9.8	9.8	86.2
FATHER	10000.	12	5.5	5.5	91.7
	11000.	12	5.5	5.5	97.2
	11001.	2	.9	.9	98.2
	11010.	1	.5	.5	98.6
	1100.	5	1.4	1.4	100.0
	10000.	215	100.0	100.0	

80.61

1980 Summer At-Home Reading Program

Appendix C

AT-HOME STUDENT PROFILES

Instrument Description: At-Home Student Profiles

Brief description of the instrument:

A form used to record information about each participant's completed lessons, number of errors per lesson, date of lesson completion, etc.

To whom was the instrument administered?

Profiles were maintained for each At-Home participant.

How many times was the instrument administered?

As often as lessons were received by At-Home headquarters.

When was the instrument administered?

Student profile information was collected until August 8, 1980, (for students participating in the first 10-week session); and until October 22, 1980, (for students participating in the second 10-week session).

Where was the instrument administered?

At-Home headquarters in Baltimore, Maryland.

Who administered the instrument?

At-Home staff.

What training did the administrators have?

Administrators were all public school teachers. The nature of any specific training they may have been given is unknown.

Was the instrument administered under standardized conditions?

Not applicable.

Were there problems with the instrument or the administration that might affect the validity of the data?

Data were collected by program staff. However, there is no reason to believe that the information is inaccurate or incomplete.

Who developed the instrument?

At-Home headquarters in Baltimore, Maryland.

What reliability and validity data are available on the instrument?

Not applicable.

Are there norm data available for interpreting the results?

No.

AT-HOME STUDENT PROFILES

Purpose

Information contained in the student profiles was used to answer the following evaluation questions and information needs:

Evaluation Question 1-1: Were the objectives of the At-Home Program met?

Evaluation Question 1-2: Were the number of lessons completed and/or the percentage of items correct positively related to subsequent achievement gains?

Evaluation Question 1-3: Was the amount of extra work completed by participants positively related to subsequent achievement gains?

Evaluation Question 1-7: Were the session levels used by participants appropriately matched to their entering ability levels?

Information Need 1: How many students participated in the 1980 Summer At-Home Program by grade, sex, and ethnicity?

Information Need 3: Did the program meet its participation objective?

Procedure

Data Collection

As each participant's lessons were received by At-Home headquarters in Maryland, information about those lessons was recorded on the form reproduced in Attachment C-1. This form was developed by the At-Home staff, and includes spaces for information about the date the lesson (or "session") was received, the number of errors in the lesson, other materials which were returned along with the lesson, and materials which were sent back to the participant.

Each participant's profile was then sent to AISD's Office of Research and Evaluation, where the information was summarized and analyzed.

Data Analysis

Participation objective:

Simple summary statistics (frequencies, means, variances) were calculated in order to provide information relevant to these questions. Number of lessons completed and number of errors per lesson were summarized using Program CONDESCRIPTIVE of the SPSS package. Number of errors per completed lesson was calculated for each participant by dividing the total number of errors by the number of completed lessons. The results are presented in Attachment C-2.

Number of Lessons and Achievement Gains:

All participants who had both pre- and posttest ITBS scores were grouped according to number of lessons completed (0-2, 3-4, 5-6, 7-8, 9-10). In order to compare gains made by participants in these groups, analyses equivalent to the slopes and intercepts tests in the analysis of covariance were done using program REGRAN of the EDSTAT package. The three linear models used are described below.

$$\text{Model 1: } Y = a_0U + a_1X^{(1)} + a_2X^{(2)} + a_3X^{(3)} + a_4X^{(4)} + a_5X^{(5)} + a_6X^{(6)} + a_7X^{(7)} + a_8X^{(8)} + a_9X^{(9)} + a_{10}X^{(10)} + E$$

$$\text{Model 2: } Y = a_0U + a_{11}X^{(11)} + a_{12}X^{(6)} + a_{13}X^{(7)} + a_{14}X^{(8)} + a_{15}X^{(9)} + a_{16}X^{(10)} + E$$

$$\text{Model 3: } Y = a_0U + a_{17}X^{(11)} + E$$

The vectors used to define the models were as follows:

Y was posttest ITBS reading total grade equivalent.

U was the unit vector.

$X^{(1)}$ was pretest ITBS reading total grade equivalent if the student completed 1-2 lessons; 0, otherwise.

$X^{(2)}$ was pretest ITBS reading total grade equivalent if the student completed 3-4 lessons; 0, otherwise.

$X^{(3)}$ was pretest ITBS reading total grade equivalent if the student completed 5-6 lessons; 0, otherwise.

$X^{(4)}$ was pretest ITBS reading total grade equivalent if the student completed 7-8 lessons, 0, otherwise.

$X^{(5)}$ was pretest ITBS reading total grade equivalent if the student completed 9-10 lessons; 0, otherwise.

$X^{(6)}$ was 1 if the student completed 1-2 lessons; 0, otherwise.

$X^{(7)}$ was 1 if the student completed 3-4 lessons; 0, otherwise.

$X^{(8)}$ was 1 if the student completed 5-6 lessons; 0, otherwise.

- X⁽⁹⁾ was 1 if the student completed 7-8 lessons; 0, otherwise.
 X⁽¹⁰⁾ was 1 if the student completed 9-10 lessons, 0, otherwise.
 X⁽¹¹⁾ was pretest ITBS reading total grade equivalent.

The output for these analyses is included in Attachments C-3 and C-4.

Appropriateness of Session Levels

The At-Home session level on which each participant worked was classified in one of three ways. The level was either "too hard," "too easy," or "appropriate." This classification was derived as follows. Participants were first grouped by session level. Then their spring, 1980, ITBS reading total grade equivalents were examined. If the first digit of the grade equivalent corresponded to the designated difficulty level of the session level, the level was classified as "appropriate." If the first digit of the ITBS total reading grade equivalent (pretest) was higher than the session's difficulty level, the level was classified as "too easy." If the first digit of the grade equivalent was below the session's difficulty level, the session was classified as "too hard." The difficulty level of the various sessions was determined by the program's developers (see Attachment C-5). Level A was not included in these analyses because the bulk of the participants at this level were kindergarten students in the spring of 1980, and therefore had no ITBS scores.

Results

Figures C-1 and C-2 summarize the student profile information for the first ten-week session with respect to number of lessons completed and number of errors per completed lesson. Figure C-3 contains the same information for the second ten-week session. Inspection of Figures C-1 and C-2 suggests that participants at Levels X, Y, and Z made more errors than participants at the lower levels. Level Y, and Z participants completed fewer lessons than the other participants.

Evaluation Question 1-1 (also Information Need 3): Did the program meet its participation objective?

The participation objective was worded as follows:

On the average, participants in the Title I summer school At-Home program will complete 80% of the At-Home lessons.

Inspection of Figure C-1 reveals that this objective was not met. On the average, participants in the regular 10-week At-Home program completed 77% of the At-Home lessons.

Evaluation Question 1-2: Were the number of lessons completed positively related to subsequent achievement gains?

Figure C-4 displays the results of the analysis comparing gains by number of lessons completed. Gains in ITBS reading total grade equivalent were not significantly different according to the number of lessons completed by participants. Thus, there appears to be no relationship between number of completed lessons and achievement gains.

Evaluation Question 1-3: Was the amount of extra work completed by participants positively related to subsequent achievement gains?

At the time the evaluation design was written, it was anticipated that the student profiles would contain information on the amount of extra work completed by participants. However, only information on the amount of extra work sent to participants was collected by At-Home headquarters. Since students were not required to complete and return the extra work they received, this question could not be answered.

Evaluation Question 1-7: Were the session levels used by participants appropriately matched to their entering ability levels?

Figure C-5 shows the number of participants whose session levels were appropriately and inappropriately matched to their entering ability levels. Level A/B has a very high proportion of students for whom this level is too easy, Levels X, Y, and Z have a high proportion of students for whom these levels are too hard. Thus, the answer to this question depends to some extent on the particular session level under consideration. The highest and lowest sessions are less appropriately matched to entering ability levels than the middle sessions. Overall, 144 participants were inappropriately matched; 107 were appropriately matched.

A relatively consistent picture emerges when these data are compared to the data on lessons completed (Figure C-1) and number of errors (Figure C-2). That is, participants at the upper session levels (X-Z) appear to be working on levels which are too difficult for them, making more errors, and completing fewer lessons. This information suggests that local personnel may need to examine more closely the way in which participants are assigned session levels.

Information Need 1: How many students participated in the 1980 summer At-Home Program by grade, sex, and ethnicity?

The list of students verified by program headquarters as active At-Home participants was matched to the HEW file maintained by AISD in order to produce a listing by grade, sex, and ethnicity. This listing is shown in Figure C-6. There were 96 Black participants (44 males and 52 females); 139 Hispanic participants (57 males and 82 females); and 94 other ethnicities (52 males and 42 females).

The total number of students in this list (N = 333) is slightly larger than the number of students for whom student profile data were received (N = 307).

80.61

Session Level	Number of Participants	Mean	Variance
A	48	7.98	5.55
A/B	68	7.93	6.58
B	74	7.74	6.93
C	35	7.71	7.33
D	38	7.24	8.83
X	27	8.26	5.51
Y	14	6.14	5.52
Z	3	5.00	12.00
Total	307	7.70	6.87

Figure C-1. AVERAGE NUMBER OF LESSONS COMPLETED. First ten-week session.

Session Level	Number of Participants	Mean	Variance
A	48	.50	.36
A/B	68	.49	.37
B	74	.59	.42
C	35	1.04	.92
D	38	1.04	.98
X	27	1.57	1.81
Y	14	2.83	2.12
Z	3	1.67	2.58
Total	307	.86	1.02

Figure C-2. AVERAGE NUMBER OF ERRORS PER COMPLETED LESSON. First ten-week session.

80.61

	# of Lessons Completed	# of Errors per Completed Lesson
Mean	8.05	1.43
Variance	5.02	3.02

Figure C-3. STUDENT PROFILE INFORMATION FOR SECOND TEN-WEEK SESSION (N = 38).

Group	N	Mean Grade Equiv.		Gain	Equal Slopes			Equal Gains		
		Pretest	Posttest		df	F	p	df	F	p
Completed 1-2 Lessons	4	2.85	3.08	.23						
Completed 3-4 Lessons	22	2.85	3.02	.17						
Completed 5-6 Lessons	17	2.30	2.51	.21	4,129	<1	.77	4,133	<1	.90
Completed 7-8 Lessons	27	2.33	2.62	.29						
Completed 9-10 Lessons	69	2.54	2.81	.27						

Figure C-4. READING TOTAL GAINS BY NUMBER OF LESSONS COMPLETED.

Appropriateness		AT-Home Session Level				
		A/B	B	C	D	X-Z
Too Hard	n	-	0	10	12	22
	%	-	0	29	32	50
Appropriate	n	15	43	17	13	19
	%	23	61	49	34	43
Too Easy	n	49	24	8	13	3
	%	77	34	22	34	7

Figure C-5. APPROPRIATENESS OF MATCH BETWEEN SESSION LEVEL AND ENTERING ABILITY LEVEL. Percents refer to column percents.

80.61

Grade	Male			Female		
	Black	Hispanic	Other	Black	Hispanic	Other
Early Childhood	-	-	-	4	-	-
Kindergarten	9	9	10	6	7	7
1	12	22	15	17	21	16
2	7	11	5	6	17	3
3	4	7	5	8	15	7
4	7	5	5	5	10	3
5	5	3	12	6	12	6
TOTAL	44	57	52	52	82	42

Figure C-6. NUMBER OF AT-HOME PARTICIPANTS BY GRADE, SEX, AND ETHNICITY. Four participants did not have ethnicity or sex data on file.

INDIVIDUALIZED STUDENT-PARENT SKILL PROFILE AT-HOME-PROGRAM

WEEK	SESSION I LEVEL _____					SESSION II LEVEL _____					SESSION III LEVEL _____				
	DATE	ERRORS	ENV	IN	OUT	DATE	ERRORS	ENV	IN	OUT	DATE	ERRORS	ENV	IN	OUT
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
TOTAL															
	LA	L-1	L-2	L-3	EV	LA	L-1	L-2	L-3	EV	LA	L-1	L-2	L-3	EV

CERT. _____

COMMENTS: _____

SCHOOL _____ STUDENT _____

ADDRESS _____ PARENT _____

CITY _____ STATE _____ ZIP _____

SESSION I _____

SESSION II _____

19 NOV 68

80.61

 A COMPUTATION CENTER A
 A UNIVERSITY OF TEXAS AT AUSTIN A

S P S S - STATISTICAL PACKAGE FOR THE SOCIAL SCIENCES

COL 600/UTEX 17- VERSION 3.5 - INSTALLED 27 AUGUST 68

NON NAME STUDENT PROFILES: DESCRIPTIVE DATA FOR 1ST 10 WEEKS
 VARIABLE LIST LESSONS, ERRORS, MILEVEL
 INPUT METHOD CARD
 NO OF CASES UNKNOWN
 INPUT FORMAT F1A(50X,F2.5,1X,F4.0,1X,F1.0)

ACCORDING TO YOUR INPUT FORMAT, VARIABLES ARE TO BE READ AS FOLLOWS

VARIABLE	FORMAT	RECORD	COLUMNS
LESSONS	F 4. 0	1	35- 36
ERRORS	F 9. 0	1	36- 41
MILEVEL	F 1. 0	1	45- 45

THE INPUT FORMAT PROVIDES FOR 3 VARIABLES. 5 WILL BE READ.
 IT PROVIDES FOR 1 RECORD (CARD54) PER CASE.
 A MAXIMUM OF 45 COLUMNS ARE USED ON A RECORD.

VAR LABELS LESSONS, TOTAL NUMBER OF LESSONS COMPLETED/
 ERRORS, AVERAGE NO. OF ERRORS PER LESSON/
 VALUE LABELS MILEVEL (1)A (2)AB (3)B (4)C (5)D (6)A (7) (8)Z/
 CODE/DESCRIPTIVE LESSONS, ERRORS
 STATISTICS ALL
 READ INPUT DATA

OPTION 1 SELECTED FOR DESCRIPTIVE

OPTION 1

DEFAULT MISSING VALUE INDICATORS

NO MISSING VALUES DETECTED...OPTION 1 WAS FORCED

Attachment C-2
 (Page 1 of 6)

80.61

Attachment C-2

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STUDENT PROFILES: DESCRIPTIVE DATA FOR 1ST 10 WEEKS

SESSION A

FILE NAME CREATION DATE = 19 NOV 89

VARIABLE LESSONS TOTAL NUMBER OF LESSONS COMPLETED

MEAN	7.479	STD DEV	.549	STD DEV	2.589
VARIANCE	5.555	KURTOSIS	-1.154	SKEWNESS	-1.431
MINIMUM	2.000	MAXIMUM	10.000	SUM	503.000
C.V. PCT	27.552	.95 C.I.	7.295	TO	0.003

VALID CASES 40 MISSING CASES

VARIABLE ERRORS AVERAGE NO. OF ERRORS PER LESSON

MEAN	2.475	STD DEV	1.000	STD DEV	1.570
VARIANCE	5.555	KURTOSIS	2.775	SKEWNESS	1.096
MINIMUM	0.000	MAXIMUM	2.000	SUM	23.000
C.V. PCT	12.156	.95 C.I.	0.325	TO	0.004

VALID CASES 40 MISSING CASES

STUDENT PROFILES: DESCRIPTIVE DATA FOR 1ST 10 WEEKS

SESSION A/B

FILE NAME CREATION DATE = 19 NOV 89

VARIABLE LESSONS TOTAL NUMBER OF LESSONS COMPLETED

MEAN	7.925	STD DEV	.511	STD DEV	2.554
VARIANCE	6.577	KURTOSIS	-1.391	SKEWNESS	-1.020
MINIMUM	1.000	MAXIMUM	10.000	SUM	559.000
C.V. PCT	32.354	.95 C.I.	7.370	TO	0.547

VALID CASES 40 MISSING CASES

VARIABLE ERRORS AVERAGE NO. OF ERRORS PER LESSON

MEAN	1.775	STD DEV	.577	STD DEV	1.669
VARIANCE	5.87	KURTOSIS	10.974	SKEWNESS	5.250
MINIMUM	0.000	MAXIMUM	2.000	SUM	33.500
C.V. PCT	123.400	.95 C.I.	0.344	TO	0.000

VALID CASES 40 MISSING CASES

80.61

Attachment C-2
(Page 3 of 6)

STUDENT PROFILES: DESCRIPTIVE DATA FOR 1ST 10 WEEKS

SESSION B

FILE 00000000 CREATION DATE = 17 NOV 69

VARIABLE LESSONS TOTAL NUMBER OF LESSONS COMPLETED

MEAN	7.743	STD. DEV.	2.300	STD. DEV.	2.033
VARIANCE	5.753	KURTOSIS	-0.947	SKEWNESS	-0.637
MINIMUM	2.000	MAXIMUM	13.000	SUM	575.000
C.V. PCT	29.700	.75 C.I.	7.133	TO	6.333

VALID CASES 74 MISSING CASES 0

VARIABLE ERRORS AVERAGE NO. OF ERRORS PER LESSON

MEAN	.594	STD. DEV.	1.76	STD. DEV.	.030
VARIANCE	.353	KURTOSIS	3.007	SKEWNESS	2.257
MINIMUM	0.000	MAXIMUM	3.250	SUM	43.940
C.V. PCT	19.494	.75 C.I.	.943	TO	.744

VALID CASES 74 MISSING CASES 0

STUDENT PROFILES: DESCRIPTIVE DATA FOR 1ST 10 WEEKS

SESSION C

FILE 00000000 CREATION DATE = 17 NOV 69

VARIABLE LESSONS TOTAL NUMBER OF LESSONS COMPLETED

MEAN	7.714	STD. DEV.	2.453	STD. DEV.	2.707
VARIANCE	7.528	KURTOSIS	-0.553	SKEWNESS	-0.443
MINIMUM	2.000	MAXIMUM	13.000	SUM	671.000
C.V. PCT	31.897	.75 C.I.	6.734	TO	6.644

VALID CASES 35 MISSING CASES 0

VARIABLE ERRORS AVERAGE NO. OF ERRORS PER LESSON

MEAN	1.35	STD. DEV.	1.02	STD. DEV.	.456
VARIANCE	.715	KURTOSIS	3.595	SKEWNESS	1.594
MINIMUM	0.000	MAXIMUM	4.000	SUM	47.250
C.V. PCT	75.120	.75 C.I.	2.10	TO	1.503

VALID CASES 35 MISSING CASES 0

80.61

Attachment C-2

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STUDENT PROFILES: DESCRIPTIVE DATA FOR 1ST 10 WEEKS

SESSION D

FILE COURSE COMPLETION DATE = 19 NOV 90

VARIABLE LESSONS TOTAL NUMBER OF LESSONS COMPLETED

MEAN	7.237	STD ERR	.402	STD DEV	2.972
VARIANCE	8.834	KURTOSIS	-1.273	SKEWNESS	-.563
MINIMUM	2.000	MAXIMUM	10.000	SUM	275.000
C.V. PCT	41.071	.75 C.I.	6.250	10	6.214

VALID CASES 50 MISSING CASES

VARIABLE ERRORS AVERAGE NO. OF ERRORS PER LESSON

MEAN	1.39	STD ERR	.151	STD DEV	.991
VARIANCE	.962	KURTOSIS	.633	SKEWNESS	1.032
MINIMUM	0	MAXIMUM	5.000	SUM	59.476
C.V. PCT	95.000	.75 C.I.	.713	10	1.364

VALID CASES 50 MISSING CASES

STUDENT PROFILES: DESCRIPTIVE DATA FOR 1ST 10 WEEKS

SESSION X

FILE COURSE COMPLETION DATE = 19 NOV 90

VARIABLE LESSONS TOTAL NUMBER OF LESSONS COMPLETED

MEAN	8.254	STD ERR	.452	STD DEV	2.347
VARIANCE	5.507	KURTOSIS	-.784	SKEWNESS	-.935
MINIMUM	4.000	MAXIMUM	10.000	SUM	223.000
C.V. PCT	28.413	.75 C.I.	7.551	10	9.150

VALID CASES 27 MISSING CASES

VARIABLE ERRORS AVERAGE NO. OF ERRORS PER LESSON

MEAN	1.500	STD ERR	.289	STD DEV	1.540
VARIANCE	1.112	KURTOSIS	.630	SKEWNESS	1.118
MINIMUM	0	MAXIMUM	4.957	SUM	42.545
C.V. PCT	45.37	.75 C.I.	1.000	10	2.111

VALID CASES 27 MISSING CASES

80.61

Attachment
(Page 5 of
SESSION Y

STUDENT PROFILES: DESCRIPTIVE DATA FOR 1ST 12 WEEKS

FILE NAME: (CREATION DATE = 19 NOV 84)

VARIABLE LESSONS TOTAL NUMBER OF LESSONS COMPLETED

MEAN	8.143	STD ERR	.528	STD DEV	2.349
VARIANCE	5.515	KURTOSIS	-1.000	SKEWNESS	.549
MINIMUM	3.000	MAXIMUM	17.000	SUM	66.840
C.V. PCI	38.233	.75 C.I.	9.787	10	1.449
VALID CASES	10	MISSING CASES	0		

VARIABLE ERRORS AVERAGE NO. OF ERRORS PER LESSON

MEAN	2.829	STD ERR	.569	STD DEV	1.456
VARIANCE	2.125	KURTOSIS	-1.155	SKEWNESS	.418
MINIMUM	.000	MAXIMUM	5.000	SUM	59.610
C.V. PCI	51.164	.75 C.I.	1.909	10	3.670
VALID CASES	10	MISSING CASES	0		

STUDENT PROFILES: DESCRIPTIVE DATA FOR 1ST 12 WEEKS SESSION Z

FILE NAME: (CREATION DATE = 19 NOV 84)

VARIABLE LESSONS TOTAL NUMBER OF LESSONS COMPLETED

MEAN	5.000	STD ERR	2.000	STD DEV	3.464
VARIANCE	12.000	KURTOSIS	0	SKEWNESS	1.732
MINIMUM	3.000	MAXIMUM	9.000	SUM	15.000
C.V. PCI	69.202	.75 C.I.	-5.645	10	13.005
VALID CASES	3	MISSING CASES	7		

VARIABLE ERRORS AVERAGE NO. OF ERRORS PER LESSON

MEAN	1.667	STD ERR	.723	STD DEV	1.667
VARIANCE	2.000	KURTOSIS	0	SKEWNESS	1.545
MINIMUM	.000	MAXIMUM	5.000	SUM	5.000
C.V. PCI	70.717	.75 C.I.	-2.000	100	5.659
VALID CASES	3	MISSING CASES	7		

STUDENT PROFILES--DESCRIPTIVE DATA FOR 1ST 10 WEEKS TOTAL

FILE NAME: CREATION DATE = 19 NOV 00

VARIABLE LESSONS TOTAL NUMBER OF LESSONS COMPLETED

MEAN	1.705	STD. DEV.	.153	STD. DEV.	2.021
VARIANCE	0.023	MINIMUM	-1.723	SKEWNESS	-1.786
MINIMUM	-1.723	MAXIMUM	12.000	SUM	2304.000
C.V. PER	34.34	.75 C.I.	1.400	10	1.995

VALID CASES = 507 MISSING CASES = 0

VARIABLE ERRORS AVERAGE NO. OF ERRORS PER LESSON

MEAN	.857	STD. DEV.	.950	STD. DEV.	1.311
VARIANCE	1.021	MINIMUM	0.000	SKEWNESS	1.990
MINIMUM	0.000	MAXIMUM	5.750	SUM	263.750
C.V. PER	117.617	.75 C.I.	1.400	10	.975

VALID CASES = 507 MISSING CASES = 0

STUDENT PROFILES--DESCRIPTIVE DATA FOR 2ND 10 WEEKS

FILE NAME: CREATION DATE = 19 NOV 00

VARIABLE LESSONS TOTAL NUMBER OF LESSONS COMPLETED

MEAN	2.005	STD. DEV.	.599	STD. DEV.	2.241
VARIANCE	0.359	MINIMUM	0.000	SKEWNESS	-1.271
MINIMUM	0.000	MAXIMUM	12.000	SUM	300.500
C.V. PER	29.855	.75 C.I.	1.510	10	2.709

VALID CASES = 507 MISSING CASES = 0

VARIABLE ERRORS AVERAGE NO. OF ERRORS PER LESSON

MEAN	1.400	STD. DEV.	.822	STD. DEV.	1.759
VARIANCE	0.675	MINIMUM	0.000	SKEWNESS	2.040
MINIMUM	0.000	MAXIMUM	7.125	SUM	34.500
C.V. PER	121.021	.75 C.I.	1.510	10	2.002

VALID CASES = 507 MISSING CASES = 0

DISTRIBUTION OF PRE- AND POSTTEST SCORES BY NUMBER
OF LESSONS COMPLETED -- ITBS READING
GRADE EQUIVALENT SCORES.

980 AT-HOME PROGRAM -- DISTRIBUTION OF SCORES BY NUMBER OF LESSONS -- 1 OR 2

FREQUENCY DISTRIBUTION FOR VARIABLE # 1 (PRETEST)

CODE	ABSOLUTE FREQ	RELATIVE	ADJUSTED	CUMULATIVE
		FREQ (PCT.)	FREQ (PCT.)	FREQ (PCT.)
1.30	1.	25.0	25.0	25.0
1.40	1.	25.0	25.0	50.0
2.70	1.	25.0	25.0	75.0
5.00	1.	25.0	25.0	100.0
TOTAL	4.	100.0	100.0	

VALID CASES= 4
MISSING CASES= 0

MEAN= 2.8500 VARIANCE= 4.8167
STD. DEV= 2.1947 STD. ERR= 1.0973
MAXIMUM= 5.0000 MINIMUM= 1.3000
RANGE= 5.7000

FREQUENCY DISTRIBUTION FOR VARIABLE # 2 (POSTTEST)

CODE	ABSOLUTE FREQ	RELATIVE	ADJUSTED	CUMULATIVE
		FREQ (PCT.)	FREQ (PCT.)	FREQ (PCT.)
1.20	1.	25.0	25.0	25.0
2.10	1.	25.0	25.0	50.0
2.70	1.	25.0	25.0	75.0
6.30	1.	25.0	25.0	100.0
TOTAL	4.	100.0	100.0	

VALID CASES= 4
MISSING CASES= 0

MEAN= 3.0750 VARIANCE= 5.0025
STD. DEV= 2.2366 STD. ERR= 1.1133
MAXIMUM= 6.3000 MINIMUM= 1.2000
RANGE= 6.1000

1980 AT-HOME PROGRAM -- DISTRIBUTION OF SCORES BY NUMBER OF LESSONS -- 3 7P 4
 FREQUENCY DISTRIBUTION FOR VARIABLE 4 1 (PRETEST)

CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT.)	ADJUSTED FREQ (PCT.)	CUMULATIVE FREQ (PCT.)
0.60	1.	4.5	4.5	4.5
1.10	1.	4.5	4.5	9.1
1.20	1.	4.5	4.5	13.6
1.40	1.	4.5	4.5	18.2
1.50	1.	4.5	4.5	22.7
1.70	1.	4.5	4.5	27.3
2.00	2.	9.1	9.1	36.4
2.30	2.	9.1	9.1	45.5
2.40	1.	4.5	4.5	50.0
2.50	3.	13.6	13.6	63.6
3.70	2.	9.1	9.1	72.7
3.90	1.	4.5	4.5	77.3
4.50	1.	4.5	4.5	81.8
4.70	1.	4.5	4.5	86.4
4.80	1.	4.5	4.5	90.9
5.30	1.	4.5	4.5	95.5
5.20	1.	4.5	4.5	100.0
TOTAL	22.	100.0	100.0	

VALID CASES= 22
 MISSING CASES= 0

MEAN= 2.8545 VARIANCE= 2.3064
 STD. DEV= 1.5197 STD. ERR= 0.3238
 MAXIMUM= 6.2000 MINIMUM= 0.6000
 RANGE= 5.6000

1980 AT-HOME PROGRAM -- DISTRIBUTION OF SCORES BY NUMBER OF LESSONS -- 4
 FREQUENCY DISTRIBUTION FOR VARIABLE # 2 (POSTTEST)

CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT.)	ADJUSTED FREQ (PCT.)	CUMULATIVE FREQ (PCT.)
1.20	1.	4.5	4.5	4.5
1.40	1.	4.5	4.5	9.1
1.70	2.	9.1	9.1	13.2
1.80	1.	4.5	4.5	22.7
1.90	1.	4.5	4.5	27.3
2.10	2.	9.1	9.1	36.4
2.20	1.	4.5	4.5	40.9
2.40	3.	13.6	13.6	54.5
2.70	1.	4.5	4.5	59.1
3.20	1.	4.5	4.5	63.6
3.50	1.	4.5	4.5	68.2
3.60	2.	9.1	9.1	77.3
4.30	1.	4.5	4.5	81.8
4.90	1.	4.5	4.5	86.4
5.10	1.	4.5	4.5	90.9
5.20	1.	4.5	4.5	95.5
7.00	1.	4.5	4.5	100.0
TOTAL	22.	100.0	100.0	

VALID CASES= 22

MISSING CASES= 0

MEAN=	3.0227	VARIANCE=	2.2123
STD. DEV=	1.4874	STD. ERR=	0.3171
MAXIMUM=	7.0000	MINIMUM=	1.2000
RANGE=	6.7000		

1980 AT-HOME PROGRAM -- DISTRIBUTION OF SCORES BY NUMBER OF LESSONS -- 5 OR 6

FREQUENCY DISTRIBUTION FOR VARIABLE # 1 (PRETEST)

CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT.)	ADJUSTED FREQ (PCT.)	CUMULATIVE FREQ (PCT.)
1.00	2.	11.8	11.8	11.8
1.10	2.	11.8	11.8	23.5
1.20	1.	5.9	5.9	29.4
1.30	2.	11.8	11.8	41.2
1.40	1.	5.9	5.9	47.1
1.70	1.	5.9	5.9	52.9
2.20	1.	5.9	5.9	58.8
3.00	2.	11.8	11.8	70.6
3.10	1.	5.9	5.9	76.5
3.70	2.	11.8	11.8	88.2
4.40	1.	5.9	5.9	94.1
4.90	1.	5.9	5.9	100.0
TOTAL	17.	100.0	100.0	

VALID CASES= 17

MISSING CASES= 0

MEAN= 2.3000

VARIANCE= 1.7100

STD. DEV= 1.3077

STD. ERR= 0.3172

MAXIMUM= 4.9000

MINIMUM= 1.0000

RANGE= 4.9000

1990 AT-HOME PROGRAM -- DISTRIBUTION OF SCORES BY NUMBER OF LESSONS -- 5 OF 6
FREQUENCY DISTRIBUTION FOR VARIABLE 4 2 (POSTTEST)

CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT.)	ADJUSTED FREQ (PCT.)	CUMULATIVE FREQ (PCT.)
0.20	1.	5.9	5.9	5.9
1.10	1.	5.9	5.9	11.8
1.20	1.	5.9	5.9	17.6
1.30	2.	11.8	11.8	29.4
1.60	2.	11.8	11.8	41.2
1.90	1.	5.9	5.9	47.1
2.00	1.	5.9	5.9	52.9
2.30	1.	5.9	5.9	58.8
2.70	1.	5.9	5.9	64.7
3.50	1.	5.9	5.9	70.6
3.60	1.	5.9	5.9	76.5
4.30	2.	11.8	11.8	88.2
4.40	1.	5.9	5.9	94.1
4.70	1.	5.9	5.9	100.0
TOTAL	17.	100.0	100.0	

VALID CASES= 17
MISSING CASES= 0

MEAN=	2.5559	VARIANCE=	1.8043
STD. DEV=	1.3433	STD. ERR=	0.3259
MAXIMUM=	4.7000	MINIMUM=	0.2000
RANGE=	4.5000		

1980 AT-HOME PROGRAM -- DISTRIBUTION OF SCORES BY NUMBER OF LESSONS -- 7 OF 8
FREQUENCY DISTRIBUTION FOR VARIABLE # 1 (PRETEST)

CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT.)	ADJUSTED FREQ (PCT.)	CUMULATIVE FREQ (PCT.)
1.00	1.	3.7	3.7	3.7
1.10	1.	3.7	3.7	7.4
1.20	3.	11.1	11.1	18.5
1.40	1.	3.7	3.7	22.2
1.50	2.	7.4	7.4	29.6
1.60	2.	7.4	7.4	37.0
1.70	1.	3.7	3.7	40.7
1.80	2.	7.4	7.4	48.1
1.90	3.	11.1	11.1	59.3
2.00	2.	7.4	7.4	66.7
2.50	3.	11.1	11.1	77.8
3.10	1.	3.7	3.7	81.5
3.40	1.	3.7	3.7	85.2
3.50	1.	3.7	3.7	88.9
4.70	1.	3.7	3.7	92.6
5.60	1.	3.7	3.7	96.3
6.80	1.	3.7	3.7	100.0
TOTAL	27.	100.0	100.0	

VALID CASES= 27
MISSING CASES= 0

MEAN=	2.3296	VARIANCE=	1.9860
STD. DEV=	1.4093	STD. ERR=	0.2712
MAXIMUM=	6.8000	MINIMUM=	1.0000
RANGE=	6.8000		

1990 AT-HOME PROGRAM -- DISTRIBUTION OF SCORES BY NUMBER OF LESSONS -- 7 CP 8

FREQUENCY DISTRIBUTION FOR VARIABLE # 2 (POSTTEST)

CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT.)	ADJUSTED FREQ (PCT.)	CUMULATIVE FREQ (PCT.)
1.10	1.	3.7	3.7	3.7
1.60	2.	7.4	7.4	11.1
1.70	2.	7.4	7.4	18.5
1.80	4.	14.8	14.8	33.3
1.90	1.	3.7	3.7	37.0
2.10	3.	11.1	11.1	48.1
2.20	2.	7.4	7.4	55.6
2.30	2.	7.4	7.4	63.0
2.40	2.	7.4	7.4	70.4
2.80	1.	3.7	3.7	74.1
2.90	1.	3.7	3.7	77.8
3.10	2.	7.4	7.4	85.2
3.90	1.	3.7	3.7	88.9
5.30	1.	3.7	3.7	92.6
6.10	1.	3.7	3.7	96.3
6.70	1.	3.7	3.7	100.0
TOTAL	27.	100.0	100.0	

VALID CASES= 27

MISSING CASES= 0

MEAN= 2.6222

VARIANCE= 1.8810

STD. DEV= 1.3715

STD. ERR= 0.2639

MAXIMUM= 6.7000

MINIMUM= 1.1000

RANGE= 6.6000

1990 AT-HOME PROGRAM -- DISTRIBUTION OF SCORES BY NUMBER OF LESSONS -- 9 OR 10
 FREQUENCY DISTRIBUTION FOR VARIABLE # 1 (PRETEST)

CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT.)	ADJUSTED FREQ (PCT.)	CUMULATIVE FREQ (PCT.)
0.50	2.	2.9	2.9	2.9
0.80	1.	1.4	1.4	4.3
0.90	2.	2.9	2.9	7.2
1.00	1.	1.4	1.4	8.7
1.10	3.	4.3	4.3	13.0
1.20	2.	2.9	2.9	15.9
1.30	4.	5.8	5.8	21.7
1.40	2.	2.9	2.9	24.6
1.60	3.	4.3	4.3	29.0
1.70	2.	4.3	4.3	33.3
1.80	4.	5.8	5.8	39.1
1.90	4.	5.8	5.8	44.9
2.00	5.	4.3	4.3	49.3
2.20	3.	4.3	4.3	53.6
2.30	3.	4.3	4.3	58.0

2.50	2.	4.3	4.3	62.3
2.60	1.	1.4	1.4	63.8
2.70	1.	1.4	1.4	65.2
2.90	1.	1.4	1.4	66.7
3.00	2.	2.9	2.9	69.6
3.50	4.	5.3	5.8	75.4
3.60	1.	1.4	1.4	76.8
3.90	2.	2.9	2.9	79.7
4.00	2.	2.9	2.9	82.6
4.20	2.	2.9	2.9	85.5
4.30	2.	2.9	2.9	88.4
4.60	2.	2.9	2.9	91.3
4.70	3.	4.3	4.3	95.7
5.10	1.	1.4	1.4	97.1
5.50	1.	1.4	1.4	98.5
6.80	1.	1.4	1.4	100.0
TOTAL	69.	100.0	100.0	

VALID CASES= 69

MISSING CASES= 0

MEAN=	2.5406	VARIANCE=	1.8921
STD. DEV=	1.3756	STD. ERR=	0.1656
MAXIMUM=	6.8000	MINIMUM=	0.5000
RANGE=	7.3000		

1980 AT-HOME PROGRAM -- DISTRIBUTION OF SCORES BY NUMBER OF LESSONS -- 9 OR 10
FREQUENCY DISTRIBUTION FOR VARIABLE 4 2 (POSTTEST)

CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT.)	ADJUSTED FREQ (PCT.)	CUMULATIVE FREQ (PCT.)
0.90	1.	1.4	1.4	1.4
1.00	1.	1.4	1.4	2.9
1.10	2.	2.9	2.9	5.8
1.20	2.	4.3	4.3	10.1
1.30	1.	1.4	1.4	11.6
1.40	2.	2.9	2.9	14.5
1.50	3.	4.3	4.3	18.8
1.60	4.	5.8	5.8	24.6
1.70	4.	5.8	5.8	30.4
1.80	4.	5.8	5.8	36.2
1.90	2.	2.9	2.9	39.1
2.00	1.	1.4	1.4	40.6
2.30	6.	8.7	8.7	49.3
2.40	3.	4.3	4.3	53.6
2.50	2.	2.9	2.9	56.5
2.60	3.	4.3	4.3	60.8
2.90	1.	1.4	1.4	62.3

3.00	1.	1.4	1.4	63.8
3.10	2.	2.9	2.9	66.7
3.20	2.	2.9	2.9	69.6
3.40	2.	2.9	2.9	72.5
3.60	3.	4.3	4.3	75.8
4.00	1.	1.4	1.4	78.3
4.10	1.	1.4	1.4	79.7
4.40	1.	1.4	1.4	81.2
4.50	1.	1.4	1.4	82.6
4.70	2.	2.9	2.9	85.5
4.80	1.	1.4	1.4	87.0
4.90	1.	1.4	1.4	88.4
5.00	1.	1.4	1.4	89.9
5.10	2.	2.9	2.9	92.3
5.40	1.	1.4	1.4	94.2
5.80	1.	1.4	1.4	95.7
5.90	2.	2.9	2.9	98.6
7.30	1.	1.4	1.4	100.0
TOTAL	69.	100.0	100.0	

VALID CASES= 69
MISSING CASES= 0

MEAN= 2.2116 VARIANCE= 2.1372
STD. DEV= 1.4789 STD. ERR= 0.1780
MAXIMUM= 7.3000 MINIMUM= 0.3000
RANGE= 7.4000

<u>Variable</u>	<u>Description</u>
1	Was posttest ITBS reading total grade equivalent.
2	Was pretest ITBS reading total grade equivalent.
3	Was pretest ITBS reading total grade equivalent if the student completed 1-2 lessons; 0, otherwise.
4	Was pretest ITBS reading total grade equivalent if the student completed 3-4 lessons; 0, otherwise.
5	Was pretest ITBS reading total grade equivalent if the student completed 5-6 lessons; 0, otherwise.
6	Was pretest ITBS reading total grade equivalent if the student completed 7-8 lesson; 0, otherwise.
7	Was pretest ITBS reading total grade equivalent if the student completed 9-10 lessons; 0, otherwise.
8	Was 1 if the student completed 1-2 lessons; 0, otherwise.
9	Was 1 if the student completed 3-4 lessons; 0, otherwise.
10	Was 1 if the student completed 5-6 lessons; 0, otherwise.
11	Was 1 if the student completed 7-8 lessons; 0, otherwise.
12	Was 1 if the student completed 9-10 lessons; 0, otherwise.

80.61

Attachment C-4
(Page 2 of 5)

*** OUTPUT FROM PROGRAM REGRAN ***

ALL GRADES -- AT HOME PROGRAM 12/80 -- # LESSON VS ACHIEV. -- READING TOTAL G.E.

PARAMETERS

CCL 1-5 =	12
CCL 6-10 =	139
CCL 11-15 =	3
CCL 16-20 =	2
CCL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5	6	7	8	9	10
	2.7784	2.5289	0.0820	0.4518	0.2813	0.4525	1.2412	0.0289	0.1583	0.1223
MEANS	11	12								
	0.1942	0.4984								
SIGMAS	1	2	3	4	5	6	7	8	9	10
	1.4485	1.4072	0.5753	1.1975	0.8745	1.1049	1.5935	0.1872	0.3650	0.3276
SIGMAS	11	12								
	0.3956	0.5000								
R MATRIX	1	2	3	4	5	6	7	8	9	10
1	1.0000	0.9469	0.1539	0.2477	0.0933	0.1722	0.4239	0.0352	0.0731	-0.0702
2	0.9469	1.0000	0.1609	0.2941	0.1077	0.1810	0.4194	0.0393	0.1004	-0.0607
3	0.1539	0.1609	1.0000	-0.0538	-0.0459	-0.0584	-0.1129	0.8282	-0.0619	-0.0532
4	0.2477	0.2941	-0.0538	1.0000	-0.1214	-0.1545	-0.2986	-0.0649	0.9701	-0.1408
5	0.0933	0.1077	-0.0459	-0.1214	1.0000	-0.1317	-0.2546	-0.0554	-0.1395	0.8617
6	0.1722	0.1810	-0.0584	-0.1545	-0.1317	1.0000	-0.3241	-0.0705	-0.1776	-0.1529
7	0.4239	0.4194	-0.1129	-0.2986	-0.2546	-0.3241	1.0000	-0.1362	-0.3432	-0.2954
8	0.0352	0.0393	0.8282	-0.0649	-0.0554	-0.0705	-0.1362	1.0000	-0.0746	-0.0643
9	0.0731	0.1004	-0.0619	0.9701	-0.1395	-0.1776	-0.3432	-0.0746	1.0000	-0.1619
10	-0.0702	-0.0607	-0.0532	-0.1408	0.8617	-0.1529	-0.2954	-0.0643	-0.1619	1.0000
11	-0.0529	-0.0695	-0.0700	-0.1452	-0.1579	0.9141	-0.3886	-0.0845	-0.2129	-1.1833

R MATRIX	11	12
1	-0.0529	0.0227
2	-0.0695	0.0083
3	-0.0700	-0.1415
4	-0.1852	-0.3746
5	-0.1579	-0.3194
6	0.8241	-0.4066
7	-0.3886	0.7972
8	-0.0845	-0.1709
9	-0.2129	-0.4305
10	-0.1833	-0.3706
11	1.0000	-0.4375
12	-0.4375	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-12

R = 0.9481

RSQ = 0.8989

62 ITERATIONS.

V	BETA	S
3	0.3874	0.9753
4	0.7678	0.9237
5	0.5832	0.9660
6	0.7057	0.9264
7	1.1199	1.0130
8	-0.0201	-0.1743
9	-0.0261	-0.1034
10	-0.0393	-0.1736
11	0.0	0.0
12	-0.0856	-0.2480
REG. CONST. =		0.4697

CC

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 8-12

R = 0.9474 RSQ = 0.8975 5 ITERATIONS.

V	BETA	B
2	0.9487	0.9765
8	-0.0043	-0.0371
9	-0.0221	-0.0878
10	-0.0163	-0.0720
11	0.0053	0.0193
12	0.0	0.0
REG. CONST. =		0.3290

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 PSQ = 0.8967

R = 0.9469 RSQ = 0.8967 1 ITERATIONS.

V	BETA	B
2	0.9469	0.9747
REG. CONST. =		0.3137

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.8989 MODEL 1

RSQ REDUCED = 0.8975 MODEL 2

DIFFERENCE = 0.0014

DFN = 4. DFD = 129. F-RATIO = 0.448 P = 0.7760

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.8975 MODEL 2

RSQ REDUCED = 0.8967 MODEL 3

DIFFERENCE = 0.0008

DFN = 4. DFD = 133. F-RATIO = 0.258 P = 0.8034

AT - HOME - PROGRAM
 THE READING SEMINAR
 OBJECTIVES AND SEQUENCING OF READING SKILLS

Session A	Reading Level-Pre k-k.....	page 1
Session A/B	Reading Level- ¹ K - ² K	page 4
Session B	Reading Level- ¹ 1 - ² 1	page 7
Session C	Reading Level- ¹ 2 - ² 2	page 11
Session D	Reading Level- ¹ 3 - ² 3	page 16
Session X	Reading Level- ¹ 4 - ² 4	page 20
Session Y	Reading Level- ¹ 5 - ² 5	page 23
Session Z	Reading Level- ¹ 6 - ² 6	page 26

1980 Summer At-Home Reading Program

Appendix D

METROPOLITAN READINESS TESTS

Instrument Description: Metropolitan Readiness Tests.

Brief description of the instrument:

Eight tests that measure the skills needed in beginning reading and mathematics. These tests can be grouped into the following skills areas: auditory, visual, language, and quantitative. The Pre-Reading composite contains a total of 73 items.

To whom was the instrument administered?

All first-grade students.

How many times was the instrument administered?

Once.

When was the instrument administered?

September 8-12, 1980. Make-up tests were administered the following week.

Where was the instrument administered?

In the classroom.

Who administered the instrument?

The classroom teacher.

What training did the administrators have?

Written instructions from ORE were provided to the counselor and principal. Any teacher inservice training that occurred was the responsibility of the counselor or principal on each campus.

Was the instrument administered under standardized conditions?

Standardized instructions were distributed. Individual variations in administration procedures may have occurred.

Were there problems with the instrument or the administration that might affect the validity of the data?

No known problems.

Who developed the instrument?

The 1933 version was developed by Dr. Gertrude H. Hildreth; the 1976 version was written by Joanne R. Wurss and Mary E. McGauvran.

What reliability and validity data are available on the instrument?

Reliability and validity data are available in the Teacher's Manual, Part II on pp. 24-25. This includes Kuder-Richardson Formula 20 and a split-half correlation between scores on the MRT and the MAT and the Stanford Tests.

Are there norm data available for interpreting the results?

The standardizing sample of 18,002 for the fall, 1974 was chosen to represent a variety of geographic regions, community sizes, and socio-economic levels, from 17 school districts. More detailed information can be found on pp. 21-24 of the Teacher's Manual, part II.

METROPOLITAN READINESS TESTS

Purpose

Scores from the reading skills areas of the MRT were used as a posttest measure for At-Home participants who were in kindergarten during the 1979-80 school year. These scores provided information relevant to the following evaluation questions:

Evaluation Question 1-1: Were the objectives of the At-Home Program met?

Information Need 2: Did the program meet its achievement objective?

Procedure

Data Collection

The MRT was administered as part of the regular Systemwide Testing Program. A complete description of the procedures involved in this administration can be found in the Final Technical Report: Systemwide Evaluation (O.R.E. Publication No. 80.39). The pretest measure for all MRT analyses was the spring, 1980, administration of the Boehm Test of Basic Concepts. A complete description of the procedures involved in the administration of this test can be found in the Final Technical Report: Systemwide Evaluation (O.R.E. Publication No. 79.14).

A description of the procedures used for selecting control students can be found in Attachment D-1. Only matched pairs with both pre- and posttest scores were included in the analyses.

Data Analysis

The pretest-posttest gains of both program and control students were compared using raw scores. The following linear models were used:

$$\text{Model 1: } Y = a_0U + a_1X^{(3)} + a_2X^{(4)} + a_3X^{(5)} + E$$

$$\text{Model 2: } Y = a_4U + a_5X^{(2)} + a_6X^{(5)} + E$$

$$\text{Model 3: } Y = a_7U + a_8X^{(2)} + E$$

The vectors used to define the models are as follows:

Y is posttest raw score.

U is the unit vector.

$X^{(2)}$ is pretest raw score.

$X^{(3)}$ is pretest if the student was an At-Home participant;
0 otherwise.

$X^{(4)}$ is pretest if the student was a control; 0 otherwise.

$X^{(5)}$ is 1 if the student was an At-Home participant;
0 if control.

Models 1 and 2 were compared which gave a result which was the equivalent of the test for equal slopes in the analysis of covariance. Models 2 and 3 were then compared to test for equal gains. All analyses were done on the ALSD computer using the EDSTAT statistical package. Program REGRAN was used for the comparisons of the linear models.

Results

Did the program meet its achievement objective?

Figure D-1 shows the results of the analysis. Inspection of this figure reveals that the achievement objective was not met at this grade level. That is, the At-Home students who were in kindergarten in 1979-80 did not make bigger achievement gains than their controls. Actual results are included as attachments to this appendix.

Measures	N	Mean Raw Score		Equal Slopes			Equal Gains		
		Pretest ^a	Posttest	df	F	p	df	F	p
Auditory Skills									
At-Home	24	37.88	17.42	1,44	<1	.81	1,45	<1	.84
Control	24	38.50	17.42						
Visual Skills									
At-Home	24	37.88	15.83	1,44	1.07	.31	1,45	<1	.45
Control	24	38.50	17.46						
Language Arts Skills									
At-Home	24	37.88	10.67	b			1,45	<1	.35
Control	24	38.50	10.75						
Prereading Composite									
At-Home	24	37.88	44.46	1,44	<1	.73	1,45	<1	.92
Control	24	38.50	45.63						

^a Pretest is total raw score on the Boehm Test of Basic Concepts (Spring, 1980, administration).

^b The amount of variance accounted for by the two models was virtually identical. Therefore, this test could not be meaningfully evaluated.

Figure D-1. COMPARISON OF GAINS MADE BY AT-HOME AND CONTROL STUDENTS ON MRT MEASURES.

DOCUMENTATION FORM

Data Source: Ac-Home Participants
(Summer, 1980)

File ID: A0Z

Date	Action Taken/Decisions	Initial
6-6-80	Match on school, grade, sex, ethnicity, achievement (i.e., ITBS Reading Tot.)	DW
"	Use grade equivalents for grades 1, 2; percentiles for grades 3, 4, 5	DW
"	If grade equivalents are not identical, hold other variables and take closest grade equivalent (must be within 4.0 months)	DW
"	If two grade equivalents are equally close, choose randomly	DW
"	If no grade equivalent match can be found within 4.0 months, change sex	DW
"	If the previous step does not produce a match, hold for discussion	DW
7-11-80	Follow above steps for grades 3-5	DW
"	Choose percentile matches which maintain the 4.0 month rule (this will vary from level to level -- consult appropriate test manuals)	DW
7-18-80	For K students, use Boehm raw total scores	DW
"	Match within 3 points (adopt previous strategies)	DW
"	If no Boehm match can be found, change sex	DW
"	If this does not produce a match, hold for discussion	DW
8-14-80	If above steps do not produce a match, change ethnicity	DW

Comparison of Gains by At-Home Participants and Control Students.

<u>Variable</u>	<u>Description</u>
1	Fall, 1980, MRT subtest raw score (specific score varies from analysis to analysis).
2	Spring, 1980, Boehm total raw score.
3	Spring, 1980, Boehm total raw score if At-Home participant; 0, otherwise.
4	Spring, 1980, Boehm total raw score if control; 0, otherwise.
5	1 if At-Home participant; 0, if control.

*** OUTPUT FROM PROGRAM REGAN ***

GRADE 1 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- VISUAL SKILLS

PARAMETERS

CCL 1-5 = 5
 CCL 6-10 = 48
 CCL 11-15 = 3
 CCL 16-20 = 2
 CCL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	16.6453	38.1375	18.9375	19.2500	0.5000

SIGMAS	1	2	3	4	5
	6.4469	5.1343	19.2748	19.5943	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.3419	-0.0609	0.1495	-0.1260
2	0.3419	1.0000	0.0704	0.1927	-0.0609
3	-0.0609	0.0704	1.0000	-0.9652	0.9825
4	0.1495	0.1927	-0.9652	1.0000	-0.9324
5	-0.1260	-0.0609	0.9825	-0.9324	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.3856 RSQ = 0.1487 152 ITERATIONS.

V	BETA	B
3	1.7917	0.5959
4	0.8206	0.2700
5	-1.0673	-13.7619
REG. CONST.		7.0441

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.1169

P = 5 RSQ = 0.1230

R = 0.3578 RSQ = 0.1290 2 ITERATIONS.

V	BETA	B
2	0.3355	0.4212
5	-0.1056	-1.3617
REG. CONST. =		1.2414

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.1169

R = 0.3419 RSQ = 0.1169 1 ITERATIONS.

V	BETA	B
2	0.3419	0.4293
REG. CONST. =		0.2523

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.1487 MODEL 1

RSQ REDUCED = 0.1280 MODEL 2

DIFFERENCE = 0.0207

DFN = 1. DFD = 44. F-RATIO = 1.071 P = 0.3071

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.1280 MODEL 2

RSQ REDUCED = 0.1169 MODEL 3

DIFFERENCE = 0.0111

DFN = 1. DFD = 45. F-RATIO = 0.573 P = 0.4592

*** OUTPUT FROM PROGRAM REGRAN ***

GRADE 1 -- AT HOME PROGRAM 12780 -- 10 WEEK VS CONTROL -- LANGUAGE ARTS SKILLS

PARAMETERS

CL 1-5 = 5
 CL 6-10 = 48
 CL 11-15 = 3
 CL 16-20 = 2
 CL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	10.9792	38.1875	18.9375	19.2500	0.5000

GMAS	1	2	3	4	5
	2.6653	5.1343	19.2748	19.5943	0.5000

MATRIX	1	2	3	4	5
1	1.0000	0.5362	0.1553	-0.0123	0.0860
2	0.5362	1.0000	0.0704	0.1927	-0.0609
3	0.1553	0.0704	1.0000	-0.9652	0.9825
4	-0.0123	0.1927	-0.9652	1.0000	-0.9824
5	0.0860	-0.0609	0.9825	-0.9824	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

= 3 RSQ = 0.0241

= 4 RSQ = 0.3014

= 0.5490 RSQ = 0.3014

2 ITERATIONS.

V	BETA	S
3	2.0998	0.2904
4	2.0145	0.2740
5	0.0	0.0

EG. CONST. = 0.2057

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.2975

P = 5 RSQ = 0.3016

R = 0.5492

RSQ = 0.3016

2 ITERATIONS.

V	BETA	B
2	0.5434	0.2821
5	0.1191	0.6346
REG. CONST. =		-0.1109

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.2875

R = 0.5362

RSQ = 0.2875

1 ITERATIONS.

V	BETA	B
2	0.5362	0.2783
REG. CONST. =		0.3500

F-TEST 1 MODEL 2 VS MODEL 3

RSQ FULL = 0.3016 MODEL 2

RSQ REDUCED = 0.2975 MODEL 3

DIFFERENCE = 0.0141

DFN = 1. DFD = 45. F-RATIO = 0.910 P = 0.3473

ILF2631

*** OUTPUT FROM PROGRAM REGAN ***

~~GRADE 1 -- AT HOME PROGRAM 12/30 -- 10 WEEK VS CONTROL -- AUDITORY SKILLS~~

PARAMETERS

CCL 1-5 = 5
 CCL 6-10 = 48
 CCL 11-15 = 3
 CCL 16-20 = 2
 CCL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	17.4167	38.1875	18.9375	19.2500	0.5000

SIGMAS	1	2	3	4	5
	7.1788	5.1343	19.2748	19.5943	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.4393	0.0523	0.0637	0.0000
2	0.4393	1.0000	0.0704	0.1927	-0.0609
3	0.0523	0.0704	1.0000	-0.9652	0.9825
4	0.0637	0.1927	-0.9652	1.0000	-0.9824
5	0.0000	-0.0609	0.9825	-0.9824	1.0000

MODEL 1 M1 CRITERION = 1

R = 0.4413 RSQ = 0.1947 68 ITERATIONS.

V	BETA	B
3	1.5960	0.5944
4	1.7472	0.6401
5	0.1453	2.0864
REG. CONST. =		-7.2055

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.1930

~~P = 5 RSQ = 0.1937~~

R = 0.4401[†] RSQ = 0.1937 2 ITERATIONS.

V	BETA	B
2	0.4410	0.6166
5	0.0268	0.3853
REG. CONST. =		-6.3209

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.1930

R = 0.4393 RSQ = 0.1930 1 ITERATIONS.

V	BETA	B
2	0.4393	0.6143
REG. CONST. =		-6.0410

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.1947 MODEL 1

RSQ REDUCED = 0.1937 MODEL 2

DIFFERENCE = 0.0010

DFN = 1. DFD = 44. F-RATIO = 0.054 P = 0.8123

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.1937 MODEL 2

RSQ REDUCED = 0.1930 MODEL 3

DIFFERENCE = 0.0007

DFN = 1. DFD = 45. F-RATIO = 0.040 P = 0.8365

*** OUTPUT FROM PROGRAM REGAN ***

GRADE 1 -- AT HOME PROGRAM 12/80 -- PROGRAM VS CONTROL STUDENTS -- 10 WEEK

PARAMETERS

CCL 1-5 = 5
 CCL 6-10 = 48
 CCL 11-15 = 3
 CCL 16-20 = 2
 CCL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	45.0417	38.1875	18.9375	19.2500	0.5000

SIGMAS	1	2	3	4	5
	13.0255	5.1343	19.2748	19.5943	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.5211	0.0305	0.1066	-0.0448
2	0.5211	1.0000	0.0704	0.1927	-0.0609
3	0.0305	0.0704	1.0000	-0.9652	0.9825
4	0.1066	0.1927	-0.9652	1.0000	-0.9324
5	-0.0448	-0.0609	0.9825	-0.9324	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.5232 RSQ = 0.2737 90 ITERATIONS.

V	BETA	B
3	2.0675	1.3972
4	1.8844	1.2527
5	-0.2217	-5.7761
REG. CONST. =		-2.6430

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.2715

P = 5 RSQ = 0.2717

R = 0.5212 RSQ = 0.2717 2 ITERATIONS.

V	BETA	B
2	0.5203	1.3199
5	-0.0131	-0.3417
REG. CONST. =		-5.1904

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.2715

R = 0.5211 RSQ = 0.2715 1 ITERATIONS.

V	BETA	B
2	0.5211	1.3219
REG. CONST. =		-5.4386

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.2737 MODEL 1

RSQ REDUCED = 0.2717 MODEL 2

DIFFERENCE = 0.0021

DFN = 1. DFD = 44. F-RATIO = 0.124 P = 0.7263

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.2717 MODEL 2

RSQ REDUCED = 0.2715 MODEL 3

DIFFERENCE = 0.0002

DFN = 1. DFD = 45. F-RATIO = 0.011 P = 0.9151

1980 Summer At-Home Reading Program

Appendix E

IOWA TESTS OF BASIC SKILLS, 1978 EDITION, FORM 7

80.61

Brief description of the instrument:

Levels 7 and 8 were given to grades 1 and 2 respectively to measure skills in the areas of Word Analysis, Vocabulary, and Reading Comprehension. ITBS levels 9-12 were administered to grades 3-5 to measure skills in the areas of Vocabulary and Reading Comprehension. Students in grades 3-5 were given the same level as they were given for the spring, 1980 administration.

To whom was the instrument administered?

All the 1980 At-Home participants, and their matched controls.

How many times was the instrument administered?

Twice. Once as a pretest and again as a posttest.

When was the instrument administered?

The pretest was administered April 15, 16, and 17, 1980. The posttest was administered the week of October 6-10 and 13-17, 1980. All tests were administered in the morning.

Where was the instrument administered?

In the schools where the participants and their controls were enrolled.

Who administered the instrument?

Most of the tests were administered by classroom teachers or counselors. On six campuses posttests were administered by ORE personnel.

What training did the administrators have?

All examiners received written instructions from ORE, including a checklist of procedures and a copy of the test manual.

Was the instrument administered under standardized conditions?

Standardized instructions were distributed. Individual variations in administration procedures may have occurred.

Were there problems with the instrument or the administration that might affect the validity of the data?

No known problems.

Who developed the instrument?

The University of Iowa. The ITBS is published by the Riverside Publishing Company (Houghton Mifflin Company).

What reliability and validity data are available on the instrument?

Reliability and validity are discussed in the publisher's technical summary.

Are there norm data available for interpreting the results?

Norm data are available in the Teacher's Guide.

IOWA TESTS OF BASIC SKILLS

Purpose

The ITBS was used to provide information relevant to the following decision questions and information needs.

Evaluation Question 1-1: Were the objectives of the At-Home Program met?

Evaluation Question 1-2: Were the number of lessons completed positively related to subsequent achievement gains?

Evaluation Question 1-3: Was the amount of extra work completed by participants positively related to subsequent achievement gains?

Evaluation Question 1-4: Did students who participated in the program in previous years make larger average gains in reading achievement than students participating for the first time?

Evaluation Question 1-5: Did younger participants make larger average gains in reading achievement than older participants?

Evaluation Question 1-6: Was there any relationship between the way in which participating families used the program materials and subsequent achievement gains?

Evaluation Question 1-7: Were the session levels used by participants appropriately matched to their entering ability levels?

Information Need 2: Did the program meet its achievement objective?

In addition, ITBS data were used to compare the achievement gains of those students who participated in the second ten-week At-Home session to the gains of their matched controls.

Evaluation Questions 1-2 and 1-7 are discussed in Appendix C of this report. Evaluation Question 1-3 could not be answered due to reasons discussed in Appendix C. Evaluation Question 1-6 could not be answered because of the lack of variability in responses to the Parent Questionnaire (see Appendix B).

Procedure

Data Collection

The pretest measure for all the analyses described in this appendix was the spring, 1980 administration of the ITBS. A complete description of the procedures involved in this administration can be found in the Final Technical Report: Systemwide Evaluation (O.R.E. Publication No. 79.14).

The following procedures were used in administering the ITBS as a posttest measure.

During the summer of 1980, a control student was selected for each At-Home participant. A description of the procedures used for selecting control students can be found in Attachment E-1. In order to verify that the At-Home and control students were actually in attendance at the schools indicated by district records, a tentative list of students to be tested was sent to each of the involved schools. The memo accompanying this list is reproduced in Attachment E-2. After the corrected lists were returned, new control students were selected to replace those controls whom the schools indicated were not in attendance on their campus. If an At-Home student was not in attendance, the appropriate control student was removed from the list of students to be tested.

The final lists of students to be tested, along with test materials and instructions, were sent to the schools on September 29. The directions and tester checklist for ITBS Levels 7 and 8 are reproduced in Attachment E-3; the same materials for ITBS Levels 9-11 are reproduced in Attachment E-4. Note that each student was posttested with the same ITBS level as they received for the pretest. Preslugged answer sheets were used for Level 9-11.

In responding to the initial tentative lists of students to be tested, personnel at several of the schools indicated that they did not have the resources to administer the tests themselves. Therefore, it was decided to offer assistance with test administration to those non-Title I campuses without a counselor. The two memos accompanying the test materials (one for those schools to whom assistance was not offered and another for those to whom assistance was offered) are reproduced in Attachment E-2.

Testing was conducted during the week of October 6-10 by staff selected by the affected schools. Those tests which were administered by O.R.E. personnel (i.e., the evaluation intern and two doctoral students in educational psychology hired specifically for this purpose) were conducted during the weeks of October 6-10 and October 13-17. These tests were administered at Brentwood, Lee, Pecan Springs, Winn, Wooldridge, and Dawson. After completion of the testing, a thank-you memo (reproduced in Attachment E-2) was sent to each of the involved schools.

Data Analysis

ITBS Levels 9-11 were scanned directly from the preslugged answer sheets. However, Levels 7 and 8 had to first be transcribed onto coding sheets from which cards were punched. Only matched pairs of students with both pre- and posttest scores were included in the analyses. In addition, a few tests for certain students at Levels 7 and 8 were excluded from the analyses because visual inspection of the coding sheets indicated that these tests had either not been attempted, or had been improperly marked. At Level 7, five Reading, two Vocabulary, and two Word Analysis tests were excluded; at Level 8, one Reading test was excluded.

Comparing achievement gains of At-Home participants and controls:

In order to compare gains made by At-Home participants and their matched controls, analyses equivalent to the slopes and intercepts tests in the analysis of covariance were performed using Program REGRAN of the EDSTAT package. The following linear models were used:

$$\text{Model 1: } Y = a_0U + a_1X^{(3)} + a_2X^{(4)} + a_3X^{(5)} + E$$

$$\text{Model 2: } Y = a_4U + a_5X^{(2)} + a_6X^{(5)} + E$$

$$\text{Model 3: } Y = a_7U + a_8X^{(2)} + E$$

The vectors used to define the models were as follows:

Y is the posttest score.

U is the unit vector.

$X^{(2)}$ is pretest score.

$X^{(3)}$ is pretest if the student was an At-Home participant; 0, otherwise.

$X^{(4)}$ is pretest if the student was a control; 0, otherwise.

$X^{(5)}$ is 1 if the student was an At-Home participant; 0, otherwise.

Models 1 and 2 were compared which gave a result which was the equivalent of the test for equal slopes; models 2 and 3 were then compared to test for equal gains. Grade equivalent scores were used in the Word Analysis, Vocabulary, Reading Comprehension, and Reading Total analyses; raw scores were used for all the skills analyses. Actual results are included as Attachments E-5 through E-15.

In addition, a similar analysis was performed to compare the gains of the 20-week participants and their matched controls. The linear models used for this analysis were identical to those described above, the vectors used to define the models were as follows:

Y is the posttest reading total grade equivalent.

U is the unit vector.

$X^{(2)}$ is pretest reading total grade equivalent.

$X^{(3)}$ is pretest reading total grade equivalent if the student was a 20-week participant; 0, otherwise.

$X^{(4)}$ is pretest reading total grade equivalent if the student was a control; 0, otherwise.

$X^{(5)}$ is 1 if the student was a 20-week participant; 0, otherwise.

The actual results are included as Attachment E-16.

Previous At-Home participation and achievement gains:

In order to compare gains made by students participating in the program for the first time and those who participated in the program in previous years, analyses equivalent to the slopes and intercepts tests in the analysis of covariance were performed using Program REGRAN of the EDSTAT package. The following linear models were used:

$$\text{Model 1: } Y = a_0U + a_1X^{(3)} + a_2X^{(4)} + a_3X^{(5)} + E$$

$$\text{Model 2: } Y = a_4U + a_5X^{(2)} + a_6X^{(5)} + E$$

$$\text{Model 3: } Y = a_7U + a_8X^{(2)} + E$$

The vectors used to define the models were as follows:

Y is the posttest reading total grade equivalent.

U is the unit vector.

$X^{(2)}$ is pretest reading total grade equivalent.

$X^{(3)}$ is pretest reading total grade equivalent if the student was a new participant; 0, otherwise.

$X^{(4)}$ is pretest reading total grade equivalent if the student was a repeating participant; 0, otherwise.

$X^{(5)}$ is 1 if the student was a repeating participant; 0, otherwise.

Students were identified as new or repeating participants on the basis of responses to item 5 on the Parent Questionnaire (see Appendix B in this report). Only students with both pre- and posttest scores were included in the analysis, which was conducted across grades. The actual results are included as Attachment E-17.

Participant age and achievement gains:

In order to determine whether younger participants made larger average gains than older participants, the mean grade equivalent gains for Reading Total (Grades 1-5) and Word Analysis (Grades 1, 2) were calculated. Only 10-week participants with both pre- and posttest scores were included in these calculations, the results of which are included in Attachments E-18 and E-19.

Students were then classified, by grade, as "high-gainers" (i.e., those whose gain score was above the mean gain score) or "low-gainers" (i.e., those whose gain score was below the mean gain score). Two chi-square analyses were then performed (one for Reading Total and one for Word Analysis) to test the significance of the relationship between grade level and the high-gain vs. low-gain dichotomy. Program CHICHI of the EDSTAT package was used for the analyses. The actual results are included in Attachments E-18 and E-19.

Results

Evaluation Question 1-1 (also Information Need 2): Did the program meet its achievement objective?

The achievement objective was worded as follows:

Participants in the Title I summer school At-Home Program will demonstrate a significantly greater increase in reading achievement than a matched group of nonparticipants from Title I eligible campuses where the At-Home summer program was carried out.

Figures E-1 through E-3 shows the mean pre- and posttest grade equivalents for the Word Analysis, Vocabulary, and Reading Comprehension tests, broken down by grade and group (i.e., 10-week participant or control student). The significance of the mean gain for each group by grade has been evaluated by correlated t-tests. Inspection of Figures E-1 to E-3 reveals 13 of the 24 t-tests to be significant at the .05 level. Five of 13 significant gains are found in the At-Home group; eight are found in the control group. It's interesting to note the close similarity of pre- and posttest scores for grades 1 and 2. This suggest that less stringent criteria may have been used in selecting first-grade participants than was the case for older participants, resulting in a relatively higher level of achievement among first-grade participants.

Figures E-4 through E-6 show the results of the tests for equal gains in Word Analysis, Vocabulary, and Reading Comprehension scores. Inspection of these figures reveals that, at the .05 level of significance, there is only one significant difference in the achievement gains of the At-Home participants compared to their controls. This difference is found in Reading Comprehension scores at the third grade (Figure E-6). However, this difference actually favors the control students, meaning that the control third graders achieved a larger average gain in reading comprehension than did the third-grade At-Home participants.

The overall test scores were then broken down into the specific skills measured by each test. Since the number of items measuring a given skill varied according to the ITBS level, these analyses were conducted by test level rather than grade level. Figures E-7 to E-11 show the results of the skill analyses. Inspection of these figures shows that only three of the 36 tests for equal gains were significant beyond the .05 level. In each case (Level 8: Verbs; Level 9: Modifiers and Connectors; Level 9: Facts), larger gains were achieved by the control students.

Finally, the Reading Total scores of the 20-week At-Home participants were compared to the scores of their matched controls. Figure E-12 displays the results of this analysis. There was no significant difference in the achievement gains of these two groups.

Altogether 101 slope and intercepts tests were conducted. Five of those were significant (1 slope test and 5 intercept tests), at the .05 level of significance.

The number of significant findings exactly mirrors the results to be expected with samples from identical populations; i.e., five percent of the tests were significant at the .05 level. The results provide no evidence for any positive or negative impact of the At-Home Program on student achievement.

In summary, the achievement objective of the At-Home Program was not met. That is, At-Home participants did not demonstrate gains in reading achievement beyond those of their matched controls.

Evaluation Question 1-4: Did students who participated in the program in previous years make larger gains in reading achievement than students participating for the first time?

Figure E-13 displays the results of this analysis, which indicates that students who participated in the program in previous years did not make larger gains in reading achievement than students participating for the first time.

Evaluation Question 1-5: Did younger participants make larger average gains in reading achievement than older participants?

Figures E-14 and E-15 display the results of the chi-square analyses which tested the degree of relationship between the "high-gain" and "low-gain" classification and grade level. Figure E-14 shows the results for the Word Analysis scores; Figure E-15 shows the results for the Reading Total scores. In neither case was participant age (i.e., grade level) significantly related to the type of achievement gain they made.

Group	Mean Grade Equivalent		Gain	N	t	df	p
	Pretest	Posttest					
Grade 1							
At-Home	1.71	1.96	0.25	42	2.23	41	.03
Control	1.79	1.82	0.03	42	.35	41	.73
Grade 2							
At-Home	1.70	1.76	0.06	21	.38	20	.71
Control	1.85	2.02	0.17	21	1.01	20	.33

Figure E-1. COMPARISON OF PRE- AND POSTTEST WORD ANALYSIS SCORES BY GRADE FOR AT-HOME AND CONTROL STUDENTS. Ten-week participants only.

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Group	Mean Grade Equivalent		Gain	N	t	df	p
	Pretest	Posttest					
Grade 1							
At-Home	1.68	1.99	0.31	41	4.62	40	.000
Control	1.60	1.89	0.29	41	3.64	40	.001
Grade 2							
At-Home	1.50	1.75	0.25	21	1.42	20	.17
Control	1.58	2.00	0.42	21	3.67	20	.002
Grade 3							
At-Home	2.58	2.71	0.13	14	.76	13	.47
Control	2.55	3.08	0.53	14	4.06	13	.002
Grade 4							
At-Home	3.64	3.64	0.00	17	1.04	16	.97
Control	3.70	4.05	0.35	17	2.71	16	.01
Grade 5							
At-Home	4.48	4.83	0.35	21	2.74	20	.01
Control	4.43	4.99	0.56	21	3.27	20	.004

Figure E-2. COMPARISON OF PRE- AND POSTTEST VOCABULARY SCORES BY GRADE FOR AT-HOME AND CONTROL STUDENTS. Ten-week participants only.

Group	Mean Grade Equivalent		Gain	N	t	df	p
	Pretest	Posttest					
Grade 1							
At-Home	1.52	1.95	0.43	40	4.91	39	.0001
Control	1.67	1.88	0.21	40	2.94	39	.006
Grade 2							
At-Home	1.78	2.00	0.22	21	2.35	20	.03
Control	1.73	1.93	0.20	21	1.77	20	.09
Grade 3							
At-Home	2.81	2.73	-0.08	14	.53	13	.61
Control	2.79	3.16	0.35	14	2.78	13	.01
Grade 4							
At-Home	3.49	3.86	0.37	17	1.83	16	.08
Control	3.51	3.85	0.34	17	2.83	16	.01
Grade 5							
At-Home	4.31	4.46	0.15	21	.69	20	.50
Control	4.52	4.59	0.07	21	.34	20	.73

Figure E-3. COMPARISON OF PRE- AND POSTTEST READING COMPREHENSION SCORES BY GRADE FOR AT-HOME AND CONTROL STUDENTS. Ten-week participants only.

Groups	N	Mean Grade Equiv.		Equal Slopes			Equal Gains		
		Pretest	Posttest	df	F	p	df	F	p
Grade 1									
At-Home	42	1.71	1.96	1,80	<1	.53	1,81	1.84	.18
Control	42	1.79	1.82						
Grade 2									
At-Home	21	1.70	1.76	1,38	<1	.80	1,39	1.05	.31
Control	21	1.85	2.02						

Figure E-4. COMPARISON BY GRADE OF WORD ANALYSIS GAINS MADE BY AT-HOME AND CONTROL STUDENTS.
Ten-week participants only.

Groups	N	Mean Grade Equiv.		Equal Slopes			Equal Gains		
		Pretest	Posttest	df	F	p	df	F	p
Grade 1									
At-Home	41	1.68	1.99	1,78	<1	.70	1,79	<1	.69
Control	41	1.60	1.89						
Grade 2									
At-Home	21	1.50	1.75	1,38	1.65	.20	1,39	<1	.44
Control	21	1.58	2.00						
Grade 3									
At-Home	14	2.58	2.71	1,24	1.07	.31	1,25	3.02	.09
Control	14	2.55	3.08						
Grade 4									
At-Home	17	3.64	3.64	1,30	1.67	.20	1,31	3.21	.08
Control	17	3.70	4.05						
Grade 5									
At-Home	21	4.48	4.83	1,38	<1	.60	1,39	<1	.31
Control	21	4.43	4.99						

Figure E-5. COMPARISON BY GRADE OF VOCABULARY GAINS MADE BY AT-HOME AND CONTROL STUDENTS.
Ten-week participants only.

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Groups	N	Mean Grade Equiv.		Equal Slopes			Equal Gains				
		Pretest	Posttest	df	F	p	df	F	p		
rade 1											
At-Home	40	1.52	1.95	1,76	2.96	.09	1,77	3.01	.09		
Control	40	1.67	1.88								
rade 2											
At-Home	21	1.78	2.00	1,38	1.95	.17	1,39	<1	.78		
Control	21	1.73	1.93								
rade 3											
At-Home	14	2.81	2.73	1,24	<1	.64	1,25	5.02	.03		
Control	14	2.79	3.16								
rade 4											
At-Home	17	3.49	3.86	1,30	2.65	.11	1,31	<1	.87		
Control	17	3.51	3.85								
rade 5											
At-Home	21	4.31	4.46	a			1,39	<1	.90		
Control	21	4.52	4.59								

The amount of variance accounted for by the two models was virtually identical. Therefore, this test could not be meaningfully evaluated.

Figure E-6. COMPARISON BY GRADE OF READING COMPREHENSION GAINS MADE BY AT-HOME AND CONTROL STUDENTS. Ten-week participants only.

Skill	N	Mean Raw Score		Equal Slopes			Equal Gains		
		Pretest	Posttest	df	F	p	df	F	p
Silent Letters									
At-Home	42	1.43	1.64	1,80	2.04	.15	1,81	<1	.45
Control	42	1.50	1.50						
Substitutions									
At-Home	42	15.90	17.21	1,80	1.28	.26	1,81	<1	.33
Control	42	16.48	17.02						
Sounds									
At-Home	42	10.79	11.10	1,80	<1	.55	1,81	<1	.65
Control	42	11.24	12.02						
Rhymes									
At-Home	42	4.62	4.90	1,80	<1	.65	1,81	<1	.38
Control	42	4.55	4.50						
Nouns									
At-Home	41	4.95	6.49	1,78	<1	.69	1,79	<1	.92
Control	41	4.78	6.41						
Verbs									
At-Home	41	5.24	5.41	1,78	<1	.56	1,79	<1	.60
Control	41	5.15	5.17						

Word Analysis

Vocabulary

Reading Comprehension	At-Home	41	2.90	3.46						
	Control	41	2.66	3.92	1,78	<1	.76	1,79	<1	.69
	Inferences									
	At-Home	40	18.30	22.70		a				
	Control	40	18.88	21.45				1,77	2.54	.11
	Facts									
	At-Home	40	14.25	17.50						
	Control	40	15.83	17.20	1,76	<1	.79	1,77	1.90	.17
	Generalization									
	At-Home	40	1.10	1.53						
	Control	40	1.23	1.38	1,76	<1	.88	1,77	<1	.36

^a The amount of variance accounted for by the two models was virtually identical. Therefore, this test could not be meaningfully evaluated.

Figure E-7. COMPARISON BY SKILL AREA OF RAW SCORE GAINS MADE BY AT-HOME AND CONTROL STUDENTS.
ITBS Level 7.

Skill	N	Mean Raw Score		Equal Slopes			Equal Gains			
		Pretest	Posttest	df	F	p	df	F	p	
Word Analysis										
Silent Letters										
At-Home	20	1.75	1.90							
Control	20	1.90	2.50	1,36	1.09	.30	1,37	2.37	.13	
Substitutions										
At-Home	20	3.95	4.00							
Control	20	4.35	4.90	1,36	<1	.84	1,37	3.02	.09	
Sounds										
At-Home	20	13.10	13.20							
Control	20	13.90	14.05	1,36	<1	.33	1,37	<1	.66	
Vocabulary										
Nouns										
At-Home	20	2.90	3.20							
Control	20	3.45	3.80	1,36	2.17	.15	1,36	<1	.54	
Verbs										
At-Home	20	3.40	3.50							
Control	20	2.95	4.45	1,36	<1	.58	1,37	4.45	.04	
Modifiers and Connectors										
At-Home	20	2.00	2.90							
Control	20	2.35	2.95	1,36	6.26	.02				b

Reading Comprehension	Inferences									
	At-Home	20	14.40	16.60	a					
							1.37	<1	.63	
	Control	20	14.80	16.10						
	Facts									
	At-Home	20	12.10	13.45						
					1.36	<1	.35	1.37	<1	.96
	Control	20	11.25	12.95						
	Generalization									
	At-Home	20	1.65	1.80						
					1.36	2.15	.15	1.37	<1	.72
	Control	20	1.65	1.95						

^a The amount of variance accounted for by the two models was virtually identical. Therefore, this test could not be meaningfully evaluated.

^b The test for equal slopes was significant, indicating an interaction which precluded a meaningful test of equal gains.

Figure E-8. COMPARISON BY SKILL AREA OF RAW SCORE GAINS MADE BY AT-HOME AND CONTROL STUDENTS, ITBS Level 8.

Skill	N	Mean Raw Score		Equal Slopes			Equal Gains			
		Pretest	Posttest	df	F	p	df	F	p	
Vocabulary	Verbs									
	At-Home	18	3.28	3.61	1,32	<1	.34	1,33	2.06	.16
	Control	18	3.50	4.67						
	Nouns									
	At-Home	18	2.78	2.94	1,32	<1	.83	1,33	1.49	.23
	Control	18	2.83	3.56						
Modifiers and Connectors										
	At-Home	18	4.83	4.78	1,32	<1	.72	1,33	5.39	.03
	Control	18	4.78	6.39						
Reading Comprehension	Generalization									
	At-Home	18	2.67	3.28	1,32	<1	.70	1,33	<1	.42
	Control	18	2.50	3.72						
	Inferences									
	At-Home	18	4.11	4.17	1,32	<1	.87	1,33	1.64	.21
	Control	18	4.50	5.06						
Facts										
	At-Home	18	9.22	7.94	1,32	1.77	.19	1,33	8.60	.006
	Control	18	8.50	10.22						

Figure E-9. COMPARISON BY SKILL AREA OF RAW SCORE GAINS MADE BY AT-HOME AND CONTROL STUDENTS.
ITBS Level 9.

Skill		N	Mean Raw Score		Equal Slopes			Equal Gains		
			Pretest	Posttest	df	F	p	df	F	p
Vocabulary	Verbs									
	At-Home	11	6.36	6.64	1,18	<1	.87	1,19	<1	.88
	Control	11	6.09	6.55						
	Nouns									
	At-Home	11	5.18	5.55	1,18	<1	.94	1,19	<1	.83
	Control	11	5.18	5.36						
Reading Comprehension	Modifiers and Connectors									
	At-Home	11	7.45	8.45	1,18	<1	.86	1,19	<1	.72
	Control	11	7.45	8.82						
	Generalization									
	At-Home	11	4.27	5.18	1,18	<1	.38	1,19	1.70	.21
	Control	11	4.00	3.73						
	Inferences									
	At-Home	11	4.27	5.45	1,18	<1	.40	1,19	2.65	.12
	Control	11	5.64	4.45						
	Facts									
At-Home	11	10.18	9.91	1,18	2.95	.10	1,19	<1	.60	
Control	11	10.00	10.55							

Figure E-10. COMPARISON BY SKILL AREA OF RAW SCORE GAINS MADE BY AT-HOME AND CONTROL STUDENTS. ITBS Level 10.

			Mean Raw Score		Equal Slopes			Equal Gains		
Skill		N	Pretest	Posttest	df	F	p	df	F	p
Vocabulary	Verbs									
	At-Home	12	6.33	7.33		a		1,21	<1	.45
	Control	12	6.08	7.92						
	Nouns									
	At-Home	12	4.92	5.67	1,20	3.65	.07	1,21	<1	.90
	Control	12	4.92	5.58						
Reading Comprehension	Modifiers and Connectors									
	At-Home	12	6.42	7.58	1,20	<1	.68	1,21	1.23	.28
	Control	12	6.92	8.83						
	Generalization									
	At-Home	12	6.50	7.17	1,20	<1	.39	1,21	<1	.91
	Control	12	7.33	7.92						
	Inferences									
	At-Home	12	6.42	7.17	1,20	1.22	.28	1,21	<1	.63
	Control	12	5.67	6.00						
	Facts									
	At-Home	12	7.17	8.00	1,20	<1	.56	1,21	<1	.93
	Control	12	7.83	8.58						

^a The amount of variance accounted for by the two models was virtually identical. Therefore, this test could not be meaningfully evaluated.
 Figure E-11. COMPARISON BY SKILL AREA OF RAW SCORE GAINS MADE BY AT-HOME AND CONTROL STUDENTS.
 ITBS Level 11.

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Group	N	Mean Grade Equiv.		Equal Slopes			Equal Gains		
		Pretest	Posttest	df	F	p	df	F	p
20-week participants	36	2.12	2.43	1,68	1.18	.28	1,69	<1	.54
Controls	36	2.16	2.54						

Figure E-12. COMPARISON OF READING TOTAL GAINS MADE BY AT-HOME AND CONTROL STUDENTS. 20-week participants.

Group	N	Mean Grade Equiv.		Equal Slopes			Equal Gains		
		Pretest	Posttest	df	F	p	df	F	p
New Participants	161	2.39	2.67	1,186	<1	.61	1,187	<1	.68
Repeat Participants	29	2.36	2.59						

Figure E-13. COMPARISON OF READING TOTAL GAINS MADE BY NEW AND REPEATING PARTICIPANTS.

Classification		1979-80 Grade Level	
		1	2
High-Gain	n	36	14
	%	(50)	(38)
Low-Gain	n	36	23
	%	(50)	(62)

$$\chi^2 = 1.01, \text{ with 1 df, } p = .32$$

Figure E-14. RELATIONSHIP BETWEEN GAINS IN WORD ANALYSIS SCORES AND GRADE LEVEL. Ten-week participants only; percents refer to column percents.

Classification		1979-80 Grade Level				
		1	2	3	4	5
High-Gain	n	44	19	8	12	15
	%	(61)	(51)	(33)	(46)	(58)
Low-Gain	n	28	18	16	14	11
	%	(39)	(49)	(67)	(54)	(42)

$$\chi^2 = 6.39, \text{ with 4 df, } p = .17$$

Figure E-15. RELATIONSHIP BETWEEN GAINS IN READING TOTAL SCORES AND GRADE LEVEL. Ten-week participants only; percents refer to column percents.

DOCUMENTATION FORM

Data Source: At-Home Participants
(Summer, 1980)

File ID: AOZ

Date	Action Taken/Decisions	Initial
6-6-80	Match on school, grade, sex, ethnicity, achievement (i.e., ITBS Reading Tot.)	DW
"	Use grade equivalents for grades 1, 2; percentiles for grades 3, 4, 5	DW
"	If grade equivalents are not identical, hold other variables and take closest grade equivalent (must be within 4.0 months)	DW
"	If two grade equivalents are equally close, choose randomly	DW
"	If no grade equivalent match can be found within 4.0 months, change sex	DW
"	If the previous step does not produce a match, hold for discussion	DW
7-11-80	Follow above steps for grades 3-5	DW
"	Choose percentile matches which maintain the 4.0 month rule (this will vary from level to level -- consult appropriate test manuals)	DW
7-18-80	For K students, use Boehm raw total scores	DW
"	Match within 3 points (adopt previous strategies)	DW
"	If no Boehm match can be found, change sex	DW
"	If this does not produce a match, hold for discussion	DW
8-14-80	If above steps do not produce a match, change ethnicity	DW

AUSTIN INDEPENDENT SCHOOL DISTRICT
Office of Research and Evaluation

September 12, 1980

TO: Principals Addressed
FROM: David Welsh, Evaluation Intern
SUBJECT: Posttesting for Summer At-Home Program Evaluation

As part of the evaluation of the 1980 At-Home Reading Program, the participants and a matched control group will be tested with portions of the Iowa Tests of Basic Skills. This testing will require approximately 80 minutes, and will be conducted by staff you select for this purpose. Testing will be conducted during the week of October 6-10.

The attached page contains the tentative list of students to be tested on your campus. At the top of the page are directions for checking the accuracy of the list. Please return the corrected list to me at ORE by Friday, September 19. The final list of students to be tested, along with instructions and testing materials, will be sent to your school on September 29.

If you have any questions, feel free to call me or David Doss at 458-1228. Thanks for your assistance.

DW:dw

ENC: tentative list of students to be tested

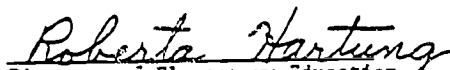
APPROVED:


Title I Evaluator

APPROVED:


Director, Office of Research and Evaluation

APPROVED:


Director of Elementary Education

Principals Addressed:

AUSTIN INDEPENDENT SCHOOL DISTRICT
Office of Research and Evaluation

September 29, 1980

TO: Principal Addressed
FROM: David Welsh, Evaluation Intern
SUBJECT: Posttesting for 1980 Summer At-Home Reading Program

Attached to this memo is the final list of students to be tested in your school during the week of October 6-10. Next to each student's name and identification number is the ITBS level with which the student should be tested.

Also accompanying this memo are the test materials and instructions for each level of the ITBS. Note that Levels 7 and 8 are given orally, and therefore will require separate administrations. Levels 9, 10, and 11 may be given together in a single administration. Each administration will require approximately 90 minutes. Should you have any questions about the testing procedures, or if you need additional materials, call me or David Doss at 458-1228.

All test materials and answer books/sheets should be returned no later than October 17 via school mail to:

David Welsh
Office of Research and Evaluation
Administration Bldg., Box 79

Thank you for your assistance.

Approved: David A. Doss
Title I Evaluator

Approved: Freda K. Hall
Director of Office of Research and Evaluation

Approved: Robert H. Hartung
Director of Elementary Education

DW:lfs

AUSTIN INDEPENDENT SCHOOL DISTRICT
Office of Research and Evaluation

September 29, 1980

TO: Principal Addressed
FROM: ^{DW} David Walsh, Evaluation Intern
SUBJECT: Posttesting for 1980 Summer At-Home Reading Program

Attached to this memo is the final list of students to be tested in your school during the week of October 6-10. Next to each student's name and identification number is the ITBS level with which the student should be tested. Levels 7 and 8 are given orally, and therefore will require separate administrations. Levels 9, 10, and 11 may be given together in a single administration.

Since yours is a non-Title I campus, and our records indicate you do not have a counselor in your school, we can make arrangements to provide a tester should you need one. If you have the resources to do the testing yourself, I will send you the necessary materials and directions. At any rate, I will call on Wednesday, October 1 to discuss this further with you.

Approved: Daniel A. Don
Title I Evaluator

Approved: Frank Hallock
Director of Office of Research and Evaluation

Approved: Roberta Hartung
Director of Elementary Education

DW:lfs

AUSTIN INDEPENDENT SCHOOL DISTRICT
Office of Research and Evaluation

October 27, 1980

TO: Principal Addressed

FROM: David Welsh, Evaluation Intern ^{DW}

SUBJECT: Posttesting for Summer At-Home Reading Program

I would like to take this opportunity to thank you for your assistance with the posttesting phase of the At-Home Program evaluation. Your cooperation was essential for the success of the evaluation efforts, and I assure you that your help was not taken for granted.

No one likes to see instructional time lost to testing, but a certain amount of testing is necessary if we are to enhance the effectiveness and accountability of our educational programs. If you have any comments or questions about the evaluation, please feel free to call me or David Doss at 458-1228. I will send you a summary of the test results after they have been analyzed.

Thanks again for your help.

APPROVED: Daniel A. Doss
Title I Evaluator

APPROVED: David Welsh
Director, Office of Research and Evaluation

APPROVED: Roberta Hartung
Director, Elementary Education

Principals Addressed:	E. R. Hinojosa	Estelle Brooks
	Grant Simpson	Jorge Rodriguez
	Waldon Wicker	L. C. Jones
	Charles Latterell	Vera Hemingway
	John Combs	Sandy Leibick
	Mary Stinson	Malon Allen
	Jose Saenz	Johnson Hildebrand
	Marshall Hampton	Billy Moore
	Wayne Rider	Diana Crowe
	Maria Sandoval	A. D. Ball
	Sheila Anderson	Rolard Johnson
	Doris Panosh	Cliff Barton
	Kay Beyer	Johnson Hildebrand

AUSTIN INDEPENDENT SCHOOL DISTRICT
Office of Research and EvaluationDIRECTIONS FOR ADMINISTERING THE ITBS
LEVELS 7 AND 8 (VOCABULARY, WORD ANALYSIS, and READING TESTS)

Today we are going to take part of the Iowa Tests of Basic Skills. It is important that you do your best on these tests. Otherwise, they will not really show how well you can read. We will use these scores to help make Austin's schools better.

It will take about an hour to finish these tests. We will take a short break when we are half through. Before we begin, I'd like to give you some hints for test-taking.

- The first and most important rule of test-taking is to listen carefully to all the directions and follow them exactly.
- I cannot answer questions about test exercises. But if you have any questions about the directions, raise your hand and wait for me to call on you.
- It is important for you to be quiet while we read the directions and when we are taking the tests. If you finish working early, you can check back over your answers just on the part we are taking. BUT PLEASE BE QUIET. If you are noisy, you might disturb classmates who are still working.
- On each of the test exercises, you are to mark the answer you think is best. You are not expected to know all of the answers, so don't guess about which answer is correct unless you know that one or two of the choices just aren't right.

Does anyone have any questions?

(Pause for questions)

I am going to pass out the test booklets now. Leave your booklet on your desk until I tell you what to do next.

(Pass out booklets)

These booklets will be scored by a computer. Because a computer will score them, you must be very careful in the way you treat your booklets and in the way you mark your answers. If you are not careful, the computer might not give you the correct score on your test. Some of the things you need to remember are:

- Don't fold your booklet. Leave it flat on your desk.
- Don't mark on your booklet except to mark your answers.
- Use a number 2 pencil to mark your answers.
- When you fill in the ovals to mark your answers, be sure that you make a heavy, dark mark that fills the oval, but doesn't go outside it. Don't waste time making very neat marks, just make very black marks.
- Mark only one answer for each question. If you change your mind about an answer, erase your first mark as completely as you can.

Are there any questions?

(Pause for questions)

(Now read directions for Test V: Vocabulary in your ITBS Teacher's Guide.)

For Level 7, the directions begin on p. 12.
For Level 8, the directions begin on p. 28.

(Continue through Test WA: Word Analysis.)

(After the students have completed Test WA, they may close their booklets and take a 3-minute break. After the break, students should return to the same seats and open their booklets. When everyone is ready, read the following)

Now we will take the last part of the test. Remember not to fold your test booklets. You should only mark one answer for each question. If you want to change an answer, erase it as completely as you can.

Are there any questions?

(Pause for questions)

(Now read the directions for Test R1: Pictures in your ITBS Teacher's Guide. Continue through Test R3: Stories).

AUSTIN INDEPENDENT SCHOOL DISTRICT
Office of Research and Evaluation

TESTER CHECKLIST FOR ITBS LEVELS 7,8

Students in grades 2 and 3 should be given Levels 7 and 8, respectively. The tests to be administered on each level are Vocabulary, Word Analysis, and Reading.

BEFORE TESTING

1. READ THROUGH THIS CHECKLIST: This information provides an overview of what must be done.
2. READ THE TEST DIRECTIONS: Reading the test directions allows you to become familiar with this particular test and helps you discover questions concerning the test procedure before the actual testing session. You will need to read the accompanying "Directions for Administering the ITBS" as well as certain portions of the ITBS Teacher's Guide.

Thus, if you will be administering Level 7, carefully read pages 12-15 of the Teacher's Guide. If you will be administering Level 8, read pages 28-31. Note that you will be using the Basic Battery booklets, which means that you will be referring to the page numbers preceded by a square in the Teacher's Guide.

3. DETERMINE WHEN AND WHERE TESTS ARE TO BE ADMINISTERED: According to the manual, the administration of the tests should require approximately 83 minutes.

10 minutes for preliminary activities
14 minutes for the Vocabulary Test
20 minutes for the Word Analysis Test
a 5-minute break
34 minutes for the Reading Test

Note that the tests are untimed, and these figures are only approximate. The time and place of the testing is up to the discretion of the teacher and the principal.

4. COMPLETE THE IDENTIFYING INFORMATION ON THE TEST BOOKLETS: Using the list of students to be tested, fill in each student's name, school, grade level, and identification number on the cover of the test booklet.
5. CHECK YOUR MATERIALS: Make sure you have the following supplies:
 - an adequate number of test booklets
 - enough number 2 pencils
 - a copy of the ITBS Teacher's Guide for Levels 7 and 8
 - a copy of the "Directions for Administering the ITBS"
 - a list of students to be tested
 - a sign for your door reading "TESTING, DO NOT DISTURB"
6. ARRANGE FOR THE STUDENTS TO BE IN THE APPROPRIATE PLACE AT THE RIGHT TIME.

THE DAY OF TESTING

- 7. ARRIVE EARLY: Make sure you have enough desks and that they are as far apart as possible. Hang the "DO NOT DISTURB" sign on the door.
- 8. DISTRIBUTE BOOKLETS AND PENCILS: After the students have arrived, make sure each one is given the booklet with his/her name on it.
- 9. ADMINISTRATION: Administer the tests following the "Directions for Administering the ITBS". Keep the following points in mind:
 - Be present in the room during all testing.
 - You may repeat test directions if students do not understand what they are supposed to do, and if it is permitted on that test.
 - DO NOT rephrase a test question or explain what a word in a test question means. Read items to students only where the test directions allow.
 - Remember that Level 7 and Level 8 tests are untimed. Allow sufficient time for all but the slowest students to finish each exercise or test.
 - Whenever possible, move quietly around the room to observe whether students are following directions correctly. Make sure students are marking their answers properly in the test booklet.
 - On those tests where students work on their own:
 - call students to quietly check back over their work on that test if they finish early.
 - remind students to go back and complete exercises that they left unanswered on that test.
 - DO NOT let students flip ahead in the test booklet.

AFTER TESTING

- 10. Make sure you collect all the testing materials. Double-check to make sure each test booklet has the student's name, school, grade level, and identification number.
- 11. MAKE-UP TESTING: Arrangements should be made so that students absent on the day of testing can be tested. Make-up testing should be done in an area which is free from distractions. Someone must be present to read directions and monitor the student(s).

12. RETURN OF COMPLETED MATERIALS: All testing materials must be returned to ORE by October 17. Materials should be returned via school mail to:

David Walsh
Office of Research & Evaluation
Administration Building, Box 79

Do not retain test materials to complete make-up testing after October 17. Do whatever make-up testing you can, but have all materials returned to ORE by October 17.

AUSTIN INDEPENDENT SCHOOL DISTRICT
Office of Research and Evaluation

DIRECTIONS FOR ADMINISTERING THE ITBS
LEVELS 9, 10, 11 (Reading and Vocabulary Tests)

Today we are going to take part of the Iowa Tests of Basic Skills. It is very important that you do your best on these tests. Otherwise, they will not really show how well you can read. We will use these scores to help make Austin's schools better.

It will take about an hour and a half to finish these tests. Before we begin, I'd like to remind you about some hints for test-taking:

- The first and most important rule of test-taking is to listen carefully to all the directions and follow them exactly.
- I cannot answer questions about specific test exercises. But if you have questions about the directions, raise your hand and wait for me to call on you.
- It is important for you to be quiet while we read the directions and when we are taking the test. If you finish early, check your answers on that part of the test only or erase any extra marks you might have made on your test booklet or answer sheet. **BUT DO BE QUIET.** If you are noisy you might disturb classmates who are still working on the test.
- You will be told when to begin and when to stop. You will not be told how much time is left, so it is a good idea to do the exercises which are easy for you first and then try the more difficult exercises. Remember you are not

expected to know all the answers. If you don't know the answer to an exercise, do not guess unless you know that one or two of the choices are wrong.

Does anyone have any questions?

(pause for questions)

I will now pass out the test booklets and answer sheets. Place your closed test booklet on your desk and wait until I give further directions.

(pass out test booklets and answer sheets)

First let's look at your answer sheet. It will be scored by a computer. Any tears, holes, folds, bent edges, or extra marks may cause the computer to score your answer sheet incorrectly. You must be very careful with your answer sheet.

Remember that all your answers to the test exercises are to be marked on your answer sheet with a number 2 pencil. **DON'T MARK IN YOUR TEST BOOKLET.** When you mark your answers, remember that you must:

- **MAKE A HEAVY MARK.** The mark should fill the oval, but it should not go outside. Do not waste time making very neat marks. It is more important to make very black marks. Be sure to use a number 2 pencil.
- **KEEP YOUR PLACE ON THE ANSWER SHEET.** Make certain each time that your mark is placed in the row numbered the same as the exercise.

- MARK ONLY ONE MARK IN A ROW.
If you change your mind about
an answer, erase your first
mark as completely as you can.

Does anyone have any questions about how
to mark the answer sheet?

(pause for questions)

Your answer sheet already has your name
on the front of it. Now turn your answer
sheet over to the side that does not have
your name printed on it and find the space
for your name. Write your last name first,
then your first name. Do not write your
name anywhere else on the answer sheet.

When you have written your name turn your
answer sheet back to the side with your
name already printed on it.

*(After the students have done this, begin
reading the blue type in the ITBS Teacher's
Guide, page 14, column 2, paragraph 6.*

*Continue up to Test L: Language Skills.
Administer only the Vocabulary and Reading
Comprehension Tests.)*

*(Students may take a five-minute break between
the Vocabulary and Reading Comprehension Tests)*

AUSTIN INDEPENDENT SCHOOL DISTRICT
Office of Research and Evaluation

TESTER CHECKLIST FOR ITBS LEVELS 9-12

Students in grades 4, 5, and 6 will be given Levels 9, 10, 11, or 12. Check the student list to determine which ITBS levels will be given to which students. Note that Levels 9-12 can be administered together. The Reading and Vocabulary tests will be administered.

BEFORE TESTING

1. READ THROUGH THIS CHECKLIST: This information provides an overview of what must be done.
2. READ THE TEST DIRECTIONS: Reading the test directions allows you to become familiar with this particular test and helps you discover questions concerning the test procedure before the actual testing session. You will need to read the accompanying "Directions for Administering the ITBS" as well as certain portions of the ITBS Teacher's Guide (pages 14-16).
3. DETERMINE WHEN AND WHERE TESTS ARE TO BE ADMINISTERED: According to the manual, the administration of the tests should require approximately 77 minutes.
 - 15 minutes for preliminary activities
 - 15 minutes for the Vocabulary Test
 - a 5-minute break
 - 42 minutes for the Reading Test

The time and place of the testing is up to the discretion of the teacher and the principal.
4. CHECK YOUR MATERIALS: Make sure you have the following supplies:
 - an adequate number of test booklets
 - enough number 2 pencils
 - a copy of the ITBS Teacher's Guide for Levels 9-14
 - a copy of the "Directions for Administering the ITBS"
 - a list of students to be tested
 - a sign for your door reading "TESTING, DO NOT DISTURB"
 - a stop watch or watch with a second hand
5. ARRANGE FOR THE STUDENTS TO BE IN THE APPROPRIATE PLACE AT THE RIGHT TIME.

THE DAY OF TESTING

6. ARRIVE EARLY: Make sure you have enough desks and that they are as far apart as possible. Hang the "DO NOT DISTURB" sign on the door.
7. DISTRIBUTE BOOKLETS, PENCILS, AND ANSWER SHEETS: After the students have arrived, make sure each one is given the answer sheet with his/her name on it.

3. ADMINISTRATION: Administer the tests following the "Directions for Administering the ITBS". Keep the following points in mind:

- Be present in the room during all testing.
- You may repeat test directions if students do not understand what they are supposed to do, and if it is permitted on that test.
- DO NOT rephrase a test question or explain what a word in a test question means. Read items to students only where the test directions allow.
- Remember that Levels 9-12 tests must be carefully timed. Do not allow students to begin early, or to work past the stopping time.
- Whenever possible, move quietly around the room to observe whether students are following directions correctly. Make sure students are marking their answers properly on their answer sheets.
- On those tests where students work on their own:
 - tell students to quietly check back over their work on that test if they finish early.
 - remind students to go back and complete exercises that they left unanswered on that test.
- DO NOT let students flip ahead in the test booklet.
- DO NOT USE paper clips or rubber bands on the answer sheets!

AFTER TESTING

- 9. Make sure you collect all the testing materials. Double-check to make sure each test booklet has the student's name, school, grade level, and identification number.
- 10. MAKE-UP TESTING: Arrangements should be made so that students absent on the day of testing can be tested. Make-up testing should be done in an area which is free from distractions. Someone must be present to read directions and monitor the student(s).
- 11. RETURN OF COMPLETED MATERIALS: All testing materials must be returned to ORE by October 17. Materials should be returned via school mail to:

David Welsh
Office of Research and Evaluation
Administration Building, Box 79

Do not retain test materials to complete make-up testing after October 17. Do whatever make-up testing you can, but have all materials returned to ORE by October 17.

Comparison of Pre- and Posttest Word Analysis Scores By Grade for
At-Home Participants and Controls.

<u>Trial</u>	<u>Description</u>
1	Posttest
2	Pretest

*** CUTPUT FROM PROGRAM ANOVAR ***

GRADE 1 -- AT HOME PROGRAM 12/80 -- WORD ANALYSIS G.E.

PARAMETERS

CCL 1-5 =	1
CCL 6-10 =	1
CCL 11-15 =	2
CCL 16-20 =	0
CCL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 42 SUBJECTS. 10 WEEK PARTICIPANTS

TOTAL	0.7469	83.		
TRIALS	1.3630	1.	4.993	0.0292
ERRCR (T)	0.2730	41.		

T MEAN	1	2
	1.9643	1.7095

PARAMETERS

CCL 1-5 =	1
CCL 6-10 =	1
CCL 11-15 =	2
CCL 16-20 =	0
CCL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 42 SUBJECTS. CONTROL

ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	0.5018	83.		
TRIALS	0.0268	1.	0.123	0.7277
ERRCR (T)	0.2180	41.		

T MEAN	1	2
	1.8214	1.7857

*** OUTPUT FROM PROGRAM ANCOVAR ***

GRADE 2 -- AT HCME PROGRAM 12/80 -- WORDS ANALYSIS G.E.

PARAMETERS

COL 1-5 =	1
COL 6-10 =	1
COL 11-15 =	2
COL 16-20 =	0
COL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 21 SUBJECTS. 10 WEEK PARTICIPANTS

ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	0.5045	41.		
TRIALS	0.0343	1.	0.147	0.7066
ERRCR (T)	0.2333	20.		

T MEAN	1	2
	1.7571	1.7000

PARAMETERS

CCL 1-5 =	1
CCL 6-10 =	1
COL 11-15 =	2
CCL 16-20 =	0
COL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 21 SUBJECTS. CONTRCL

ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	0.4766	41.		
TRIALS	0.3086	1.	1.013	0.3276
ERRCR (T)	0.3046	20.		

T MEAN	1	2
	2.0238	1.8524

80.61

Attachment E-6
(Page 1 of 6)

Comparison of Pre- and Posttest Vocabulary Scores By Grade for At-Home
Participants and Controls.

<u>Trial</u>	<u>Description</u>
1	Posttest
2	Pretest

*** OUTPUT FROM PROGRAM ANCOVAR ***

GRADE 2 -- AT HOME PROGRAM 12/80 -- VOCABULARY G.E.

PARAMETERS

COL 1-5 =	1
COL 6-10 =	1
COL 11-15 =	2
COL 16-20 =	0
COL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 41 SUBJECTS. 10 WEEK PARTICIPANTS

ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	0.3815	81.		
TRIALS	1.9980	1.	21.358	0.0001
ERROR (T)	0.0935	40.		

T MEAN	1	2
	1.9878	1.6756

PARAMETERS

COL 1-5 =	1
COL 6-10 =	1
COL 11-15 =	2
COL 16-20 =	0
COL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 41 SUBJECTS. CONTROL

ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	0.4805	81.		
TRIALS	1.7561	1.	13.244	0.0011
ERROR (T)	0.1326	40.		

T MEAN	1	2
	1.8927	1.6000

*** OUTPUT FROM PROGRAM ANCOVAR ***

GRADE 2 -- AT HOME PROGRAM 12/80 -- VOCABULARY G.E.

PARAMETERS

COL 1-5 =	1
COL 6-10 =	1
COL 11-15 =	2
COL 16-20 =	0
COL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 21 SUBJECTS. 10 WEEK PARTICIPANTS

ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	0.7671	41.		
TRIALS	0.6688	1.	2.016	0.1682
ERROR (T)	0.3318	20.		

T MEAN	1	2
	1.7476	1.4952

PARAMETERS

COL 1-5 =	1
COL 6-10 =	1
COL 11-15 =	2
COL 16-20 =	0
COL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 21 SUBJECTS. CONTROL

ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	0.7719	41.		
TRIALS	1.8438	1.	13.477	0.0018
ERROR (T)	0.1368	20.		

T MEAN	1	2
	1.9952	1.5762

*** OUTPUT FROM PROGRAM ANOVAR ***

GRADE 3 -- AT HOME PROGRAM 12/80 -- READING VOCABULARY G.E.

PARAMETERS

COL 1-5 =	1
COL 6-10 =	1
COL 11-15 =	2
COL 16-20 =	0
COL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 14 SUBJECTS. 10 WEEK PARTICIPANTS
ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	0.7804	27.		
TRIALS	0.1289	1.	0.573	0.4685
ERROR (T)	0.2251	13.		

T MEAN	1	2
	2.7143	2.5786

PARAMETERS

COL 1-5 =	1
COL 6-10 =	1
COL 11-15 =	2
COL 16-20 =	0
COL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 14 SUBJECTS. 10 WEEK CONTROLS
ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	0.7435	27.		
TRIALS	1.9557	1.	16.463	0.0016
ERROR (T)	0.1138	13.		

T MEAN	1	2
	3.0736	2.5500

*** OUTPUT FROM PROGRAM ANOVAR ***

GRADE 4 -- AT HOME PROGRAM 12/90 -- READING VOCABULARY G.E.

PARAMETERS

COL 1-5 =	1
COL 6-10 =	1
COL 11-15 =	2
COL 16-20 =	0
COL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 17 SUBJECTS. 10 WEEK PARTICIPANTS
ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	3.4606	33.		
TRIALS	0.0003	1.	0.002	0.9678
ERROR (T)	0.1872	16.		

T MEAN	1	2
	3.6353	3.6412

PARAMETERS

COL 1-5 =	1
COL 6-10 =	1
COL 11-15 =	2
COL 16-20 =	0
COL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 17 SUBJECTS. 10 WEEK CONTROLS
ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	2.5285	33.		
TRIALS	1.0588	1.	7.362	0.0147
ERROR (T)	0.1438	16.		

T MEAN	1	2
	4.0529	3.7000

*** OUTPUT FROM PROGRAM ANOVAR ***

GRADE 5 -- AT HOME PROGRAM 12/80 -- READING VOCABULARY G.E.

PARAMETERS

COL 1-5 =	1
COL 6-10 =	1
CCL 11-15 =	2
CCL 16-20 =	0
CCL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 21 SUBJECTS. 10 WEEK PARTICIPANTS
ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	0.9899	41.		
TRIALS	1.3393	1.	7.533	0.0120
ERROR (T)	0.1778	20.		

T MEAN	1	2
	4.8333	4.4762

PARAMETERS

CCL 1-5 =	1
COL 6-10 =	1
CCL 11-15 =	2
CCL 16-20 =	0
CCL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 21 SUBJECTS. 10 WEEK CONTROLS
ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	1.1011	41.		
TRIALS	3.2593	1.	10.694	0.0040
ERROR (T)	0.3048	20.		

T MEAN	1	2
	4.9905	4.4333

Comparison of Pre- and Posttest Reading Comprehension Scores By
Grade for At-Home and Control Students.

<u>Trial</u>	<u>Description</u>
1	Posttest
2	Pretest

*** OUTPUT FROM PROGRAM ANCOVAR ***

GRADE 5 -- AT HOME PROGRAM 12/80 -- COMPREHENSION G.E.

PARAMETERS

COL 1-5 =	1
COL 6-10 =	1
COL 11-15 =	2
COL 16-20 =	0
COL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 40 SUBJECTS. 10 WEEK PARTICIPANTS
ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	0.5162	79.		
TRIALS	3.6980	1.	24.150	0.0001
ERROR (T)	0.1531	39.		

T MEAN	1	2
	1.9500	1.5200

PARAMETERS

COL 1-5 =	1
COL 6-10 =	1
COL 11-15 =	2
COL 16-20 =	0
COL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 40 SUBJECTS. CONTROL
ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	0.4033	79.		
TRIALS	0.8611	1.	8.669	0.0056
ERROR (T)	0.0993	39.		

T MEAN	1	2
	1.8750	1.6675

*** OUTPUT FROM PROGRAM ANCOVAR ***

GRADE 2 -- AT HOME PROGRAM 12/80 -- COMPREHENSION G.E.

PARAMETERS

CCL 1-5 =	1
COL 6-10 =	1
COL 11-15 =	2
COL 16-20 =	0
COL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 21 SUBJECTS. 10 WEEK PARTICIPANTS
ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	0.4845	41.		
TRIALS	0.5260	1.	5.510	0.0277
ERROR (T)	0.0955	20.		

T MEAN	1	2
	2.0000	1.7762

GRADE 2 -- AT HOME PROGRAM 12/80 -- COMPREHENSION G.E.

PARAMETERS

COL 1-5 =	1
COL 6-10 =	1
COL 11-15 =	2
COL 16-20 =	0
COL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 21 SUBJECTS. CONTROL
ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	0.4266	41.		
TRIALS	0.4002	1.	3.146	0.0881
ERROR (T)	0.1272	20.		

T MEAN	1	2
	1.9286	1.7333

*** OUTPUT FROM PROGRAM ANOVAR ***

GRADE 3 -- AT HOME PROGRAM 12/80 -- READING COMPREHENSION G.E.

PARAMETERS

CCL 1-5 =	1
CCL 6-10 =	1
CCL 11-15 =	2
CCL 16-20 =	0
CCL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 14 SUBJECTS. 10 WEEK PARTICIPANTS
ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	0.6186	27.		
TRIALS	0.0432	1.	0.283	0.6087
ERROR (T)	0.1524	13.		

T MEAN	1	2
	2.7286	2.8071

PARAMETERS

CCL 1-5 =	1
CCL 6-10 =	1
CCL 11-15 =	2
CCL 16-20 =	0
CCL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 14 SUBJECTS. 10 WEEK CONTROLS
ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	0.6064	27.		
TRIALS	1.0032	1.	7.755	0.0149
ERROR (T)	0.1294	13.		

T MEAN	1	2
	3.1643	2.7857

*** OUTPUT FROM PROGRAM ANOVAR ***

GRADE 4 -- AT HOME PROGRAM 12/80 -- READING COMPREHENSION G.E.

PARAMETERS

CCL 1-5 =	1
CCL 6-10 =	1
CCL 11-15 =	2
CCL 16-20 =	0
CCL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 17 SUBJECTS. 10 WEEK PARTICIPANTS
ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	2.4826	33.		
TRIALS	1.1674	1.	3.343	0.0832
ERROR (T)	0.3492	16.		

T MEAN	1	2
	3.8588	3.4882

PARAMETERS

CCL 1-5 =	1
CCL 6-10 =	1
CCL 11-15 =	2
CCL 16-20 =	0
CCL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 17 SUBJECTS. 10 WEEK CONTROLS
ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	2.4780	33.		
TRIALS	0.9556	1.	8.007	0.0117
ERROR (T)	0.1193	16.		

T MEAN	1	2
	3.9471	3.5118

*** OUTPUT FROM PROGRAM ANOVAR ***

GRADE 5, -- AT HOME PROGRAM 12/80 -- READING COMPREHENSION G.E.

PARAMETERS

COL 1-5 =	1
COL 6-10 =	1
COL 11-15 =	2
COL 16-20 =	0
COL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 21 SUBJECTS. 10 WEEK PARTICIPANTS
ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	1.6460	41.		
TRIALS	0.2288	1.	0.482	0.5020
ERROR (T)	0.4748	20.		

T MEAN	1	2
	4.4619	4.3143

PARAMETERS

COL 1-5 =	1
COL 6-10 =	1
COL 11-15 =	2
COL 16-20 =	0
COL 21-25 =	0

DATA FORMAT = (DUMMY)

GROUP 1 21 SUBJECTS. 10 WEEK CONTROLS
ANALYSIS FOR VARIABLE 1

SOURCE	MEAN SQUARE	D.F.	F-RATIO	P
TOTAL	1.2811	41.		
TRIALS	0.0467	1.	0.117	0.7347
ERROR (T)	0.3977	20.		

T MEAN	1	2
	4.5857	4.5190

Comparisons of At-Home Participants and Controls on ITBS Word Analysis Gains.

Grades 1 and 2

<u>Variable</u>	<u>Description</u>
1	Fall, 1980, Word Analysis grade equivalent score.
2	Spring, 1980, Word Analysis grade equivalent score.
3	Spring, 1980, Word Analysis grade equivalent score if At-Home participant; 0, otherwise.
4	Spring, 1980, Word Analysis grade equivalent score if control; 0, otherwise.
5	1 if At-Home participant; 0, otherwise.

*** OUTPUT FROM PROGRAM REGAN ***

GRADE 15 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- WORD ANALYSIS G.E.

PARAMETERS

COL 1-5 = 5
 COL 6-10 = 84
 COL 11-15 = 3
 COL 16-20 = 2
 COL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	1.8929	1.7476	0.8548	0.8929	0.5000

SIGMAS	1	2	3	4	5
	0.8013	0.7623	1.0302	1.0228	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.5993	0.3496	0.0946	0.0891
2	0.5993	1.0000	0.3796	0.3629	-0.0500
3	0.3496	0.3796	1.0000	-0.7243	0.8297
4	0.0946	0.3629	-0.7243	1.0000	-0.8729
5	0.0891	-0.0500	0.8297	-0.8729	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

P = 3 RSQ = 0.1222

P = 4 RSQ = 0.3766

R = 0.6137 RSQ = 0.3766 2 ITERATIONS.

V	BETA	B
3	0.8794	0.6844
4	0.7316	0.5734
5	0.0	0.0
REG. CONST. =		0.7958

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.3592

P = 5 RSQ = 0.3734

R = 0.6111 RSQ = 0.3734 2 ITERATIONS.

V	BETA	B
2	0.6053	0.6367
5	0.1193	0.1914
REG. CONST. =		0.6845

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.3592

R = 0.5993 RSQ = 0.3592 1 ITERATIONS.

V	BETA	B
2	0.5993	0.6304
REG. CONST. =		0.7912

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.3766 MODEL 1

RSQ REDUCED = 0.3734 MODEL 2

DIFFERENCE = 0.0032

DFN = 1. DFD = 80. F-RATIO = 0.410 P = 0.5308

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.3734 MODEL 2

RSQ REDUCED = 0.3592 MODEL 3

DIFFERENCE = 0.0142

DFN = 1. DFD = 81. F-RATIO = 1.837 P = 0.1758

*** OUTPUT FROM PROGRAM REGAN ***

GRADE 2 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- WORD ANALYSIS G.E.

PARAMETERS

COL 1-5 =	5
COL 6-10 =	42
COL 11-15 =	3
COL 16-20 =	2
COL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	1.8905	1.7762	0.8500	0.9262	0.5000
SIGMAS	1	2	3	4	5
	0.6914	0.7037	1.0024	1.0319	0.5000
R MATRIX	1	2	3	4	5
1	1.0000	0.4703	0.0309	0.2907	-0.1929
2	0.4703	1.0000	0.3085	0.3822	-0.1083
3	0.0309	0.3085	1.0000	-0.7611	0.8479
4	0.2907	0.3822	-0.7611	1.0000	-0.8976
5	-0.1929	-0.1083	0.8479	-0.8976	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.4928 RSQ = 0.2428 28 ITERATIONS.

V	BETA	B
3	0.6869	0.4738
4	0.6174	0.4137
5	-0.2185	-0.3021
REG. CONST. =	1.2557	

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.2212

P = 5 RSQ = 0.2416

R = 0.4915 RSQ = 0.2416 2 ITERATIONS.

V	BETA	B
2	0.4548	0.4468
5	-0.1436	-0.1986
REG. CCNST. =		1.1961

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.2212

R = 0.4703 RSQ = 0.2212 1 ITERATIONS.

V	BETA	B
2	0.4703	0.4621
REG. CCNST. =		1.0697

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.2428 MODEL 1

RSQ REDUCED = 0.2416 MODEL 2

DIFFERENCE = 0.0012

DFN = 1. DFD = 38. F-RATIO = 0.063 P = 0.7993

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.2416 MODEL 2

RSQ REDUCED = 0.2212 MODEL 3

DIFFERENCE = 0.0204

DFN = 1. DFD = 39. F-RATIO = 1.048 P = 0.3132

Comparisons of At-Home Participants and Controls on ITBS Vocabulary Gains.

Grades 1-5

<u>Variable</u>	<u>Description</u>
1	Fall, 1980, Vocabulary grade equivalent score.
2	Spring, 1980, Vocabulary grade equivalent score.
3	Spring, 1980, Vocabulary grade equivalent score if At-Home participant; 0, otherwise.
4	Spring, 1980, Vocabulary grade equivalent score if control; 0, otherwise.
5	1 if At-Home participant; 0, otherwise.

*** OUTPUT FROM PROGRAM REGRAH ***

GRADE I: -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- VOCABULARY G.E.

PARAMETERS

COL 1-5 =	5
COL 6-10 =	82
CCL 11-15 =	3
COL 16-20 =	2
CCL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	1.9402	1.6378	0.8378	0.8000	0.5000
SIGMAS	1	2	3	4	5
	0.6382	0.6341	0.9339	0.9330	0.5000
R MATRIX	1	2	3	4	5
1	1.0000	0.7273	0.2860	0.2081	0.0745
2	0.7273	1.0000	0.3409	0.3385	0.0596
3	0.2860	0.3409	1.0000	-0.7692	0.8971
4	0.2081	0.3385	-0.7692	1.0000	-0.8574
5	0.0745	0.0596	0.8971	-0.8574	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.7286 RSQ = 0.5309

13 ITERATIONS.

V	BETA	B
3	1.1084	0.7575
4	1.0385	0.7104
5	-0.0294	-0.0376
REG. CONST. =		0.7561

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.5290

P = 5 RSQ = 0.5300

R = 0.7280 RSQ = 0.5300 2 ITERATIONS.

V	BETA	B
2	0.7254	0.7254
5	0.0313	0.0313
REG. CONST. =		0.7245

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.5290

R = 0.7273 RSQ = 0.5290 1 ITERATIONS.

V	BETA	B
2	0.7273	0.7320
REG. CONST. =		0.7414

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.5309 MODEL 1

RSQ REDUCED = 0.5300 MODEL 2

DIFFERENCE = 0.0009

DFN = 1. DFD = 78. F-RATIO = 0.155 P = 0.6974

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.5300 MODEL 2

RSQ REDUCED = 0.5290 MODEL 3

DIFFERENCE = 0.0010

DFN = 1. DFD = 79. F-RATIO = 0.004 P = 0.6895

*** OUTPUT FROM PROGRAM REGRAN ***

GRADE 2 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- VOCABULARY G.E.

PARAMETERS

COL 1-5 =	5
COL 6-10 =	42
COL 11-15 =	3
COL 16-20 =	2
COL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	1.8714	1.5357	0.7476	0.7881	0.5000
SIGMAS	1	2	3	4	5
	0.9681	0.7240	0.9103	0.9348	0.5000
R MATRIX	1	2	3	4	5
1	1.0000	0.7192	0.1315	0.4290	-0.1279
2	0.7192	1.0000	0.3634	0.4207	-0.0559
3	0.1315	0.3634	1.0000	-0.6924	0.8213
4	0.4290	0.4207	-0.6924	1.0000	-0.8430
5	-0.1279	-0.0559	0.8213	-0.8430	1.0000

MODEL 1 M1 CRITERION = .1

PREDICTORS = 3-5

R = 0.7380 RSQ = 0.5447 24 ITERATIONS.

V	BETA	B
3	0.7342	0.7808
4	1.1033	1.1426
5	0.1963	0.3800
REG. CONST. =		0.1972

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.5172

P = 5 RSQ = 0.5250

R = 0.7245 RSQ = 0.5250 2 ITERATIONS.

V	BETA	B
2	0.7143	0.9551
5	-0.0880	-0.1703
REG. CONST. =		0.4898

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.5172

R = 0.7192 RSQ = 0.5172 1 ITERATIONS.

V	BETA	B
2	0.7192	0.9617
REG. CONST. =		0.3946

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.5447 MODEL 1

RSQ REDUCED = 0.5250 MODEL 2

DIFFERENCE = 0.0197

DFN = 1. DFD = 38. F-RATIO = 1.648 P = 0.2045

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.5250 MODEL 2

RSQ REDUCED = 0.5172 MODEL 3

DIFFERENCE = 0.0077

DFN = 1. DFD = 39. F-RATIO = 0.633 P = 0.4267

*** OUTPUT FROM PROGRAM REGRAN ***

GRADE 3 -- AT HOME PROGRAM 12/00 -- 10 WEEK VS CONTROL -- VOCABULARY G.E.

PARAMETERS

CCL 1-5 =	5
CCL 6-10 =	28
CCL 11-15 =	3
CCL 16-20 =	2
CCL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	2.8964	2.5643	1.2893	1.2750	0.5000
SIGMAS	1	2	3	4	5
	0.9394	0.7388	1.3756	1.3933	0.5000
R MATRIX	1	2	3	4	5
1	1.0000	0.7712	0.0268	0.3825	-0.1939
2	0.7712	1.0000	0.2445	0.2838	0.0193
3	0.0268	0.2445	1.0000	-0.8577	0.9372
4	0.3825	0.2838	-0.8577	1.0000	-0.9151
5	-0.1939	0.0193	0.9372	-0.9151	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.3085 RSQ = 0.6537 55 ITERATIONS.

V	BETA	B
3	1.6978	1.1594
4	1.2781	0.8618
5	-0.6155	-1.1564
REG. CONST. =		0.8810

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.5947

P = 5 RSQ = 0.6383

R = 0.7989 RSQ = 0.6383 2 ITERATIONS.

V	BETA	B
2	0.7752	0.9856
5	-0.2089	-0.3924
REG. CONST. =		0.5652

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.5947

R = 0.7712 RSQ = 0.5947 1 ITERATIONS.

V	BETA	B
2	0.7712	0.9805
REG. CONST. =		0.3821

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.6537 MODEL 1

RSQ REDUCED = 0.6383 MODEL 2

DIFFERENCE = 0.0154

DFN = 1. DFD = 24. F-RATIO = 1.066 P = 0.3130

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.6383 MODEL 2

RSQ REDUCED = 0.5947 MODEL 3

DIFFERENCE = 0.0436

DFN = 1. DFD = 25. F-RATIO = 3.015 P = 0.0914

*** OUTPUT FROM PROGRAM REGAN ***

GRADE 4 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- VOCABULARY G.E.

PARAMETERS

CCL 1-5 =	5
CCL 6-10 =	34
CCL 11-15 =	3
CCL 16-20 =	2
CCL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	3.8441	3.6706	1.8206	1.8500	0.5000
SIGMAS	1	2	3	4	5
	1.7887	1.6207	2.1779	2.1493	0.5000
R MATRIX	1	2	3	4	5
1	1.0000	0.9456	0.3109	0.3980	-0.1167
2	0.9456	1.0000	0.3896	0.3593	-0.0181
3	0.3109	0.3896	1.0000	-0.7195	0.8359
4	0.3980	0.3593	-0.7195	1.0000	-0.8607
5	-0.1167	-0.0181	0.8359	-0.8607	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3- 5

R = 0.9535 RSQ = 0.9091 29 ITERATIONS.

V	BETA	B
3	1.3483	1.1073
4	1.1587	0.9643
5	-0.2465	-0.8819
REG. CONST. =		0.4852

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.8941

P = 5 RSQ = 0.9041

R = 0.9508 RSQ = 0.9041 2 ITERATIONS.

V	BETA	B
2	0.9438	1.0416
5	-0.0996	-0.3564
REG. CONST. =		0.1990

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.8941

R = 0.9456 RSQ = 0.8941 1 ITERATIONS.

V	BETA	B
2	0.9456	1.0436
REG. CONST. =		0.0135

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.9091 MODEL 1

RSQ REDUCED = 0.9041 MODEL 2

DIFFERENCE = 0.0050

DFN = 1. DFD = 30. F-RATIO = 1.666 P = 0.2042

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.9041 MODEL 2

RSQ REDUCED = 0.8941 MODEL 3

DIFFERENCE = 0.0099

DFN = 1. DFD = 31. F-RATIO = 3.205 P = 0.0797

*** OUTPUT FROM PROGRAM REGRAN ***

GRADE 5 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- VOCABULARY G.E.

PARAMETERS

CCL 1-5 = 5
 CCL 6-10 = 42
 CCL 11-15 = 3
 CCL 16-20 = 2
 CCL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	4.9119	4.4548	2.2381	2.2167	0.5000
SIGMAS	1	2	3	4	5
	1.0646	0.8971	2.3232	2.3087	0.5000
R MATRIX	1	2	3	4	5
1	1.0000	0.7689	0.0836	0.2147	-0.0738
2	0.7689	1.0000	0.2092	0.1781	0.0239
3	0.0836	0.2092	1.0000	-0.9250	0.9634
4	0.2147	0.1781	-0.9250	1.0000	-0.9601
5	-0.0738	0.0239	0.9634	-0.9601	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.7764 RSQ = 0.6027 76 ITERATIONS.

V	BETA	B
3	2.1158	0.9696
4	1.8793	0.8666
5	-0.3046	-0.6486
REG. CONST. =		1.1452

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.5911

P = 5 RSQ = 0.5996

R = 0.7744 RSQ = 0.5996 2 ITERATIONS.

V	BETA	B
2	0.7711	0.9150

5	-0.0922	-0.1964
---	---------	---------

REG CONST. = 0.9339

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.5911

R = 0.7689 RSQ = 0.5911 1 ITERATIONS.

V	BETA	B
2	0.7689	0.9124

REG. CONST. = 0.8474

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.6027 MODEL 1

RSQ REDUCED = 0.5996 MODEL 2

DIFFERENCE = 0.0031

DFN = 1. DFC = 38. F-RATIO = 0.297 P = 0.5956

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.5996 MODEL 2

RSQ REDUCED = 0.5911 MODEL 3

DIFFERENCE = 0.0085

DFN = 1. DFD = 39. F-RATIO = 0.828 P = 0.3716

Comparisons of At-Home Participants and Controls on ITBS Reading
Comprehension Gains.

Grades 1-5

<u>Variable</u>	<u>Description</u>
1	Fall, 1980, Comprehension grade equivalent score.
2.	Spring, 1980, Comprehension grade equivalent score.
3	Spring, 1980, Comprehension grade equivalent score if At-Home participant; 0, otherwise.
4	Spring, 1980, Comprehension grade equivalent score if control; 0, otherwise.
5	1 if At-Home participant; 0, otherwise.

*** OUTPUT FROM PROGRAM REGAN ***

GRADE 12 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS. CONTROL -- COMPREHENSION G.E.

PARAMETERS

CGL 1-5 =	5
COL 6-10 =	80
COL 11-15 =	3
CGL 16-20 =	2
COL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	1.9125	1.5937	0.7600	0.8337	0.5000

SIGMAS	1	2	3	4	5
	0.6028	0.7033	0.9362	0.9410	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.7070	0.3289	0.2011	0.0622
2	0.7070	1.0000	0.3687	0.3805	-0.1049
3	0.3289	0.3687	1.0000	-0.7193	0.8118
4	0.2011	0.3805	-0.7193	1.0000	-0.8860
5	0.0622	-0.1049	0.8118	-0.8860	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3- 5

R = 0.7326 RSQ = 0.5367 30 ITERATIONS.

V	BETA	B
3	0.8235	0.5303
4	1.1852	0.7592
5	0.4409	0.5315
REG. CONST. =		0.6108

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.4998

P = 5 RSQ = 0.5186

R = 0.7202 RSQ = 0.5186 2 ITERATIONS.

V	BETA	B
2	0.7214	0.6184
5	0.1379	0.1662
REG. CONST. =		0.8439

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.4998

R = 0.7070 RSQ = 0.4998 1 ITERATIONS.

V	BETA	B
2	0.7070	0.6060
REG. CONST. =		0.9467

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.5367 MODEL 1

RSQ REDUCED = 0.5186 MODEL 2

DIFFERENCE = 0.0180

DFN = 1. DFD = 76. F-RATIO = 2.961 P = 0.0856

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.5186 MODEL 2

RSQ REDUCED = 0.4998 MODEL 3

DIFFERENCE = 0.0188

DFN = 1. DFD = 77. F-RATIO = 3.007 P = 0.0831

*** OUTPUT FROM PROGRAM REGRAN ***

GRADE 2 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- COMPREHENSION G.E.

PARAMETERS

COL 1-5 =	5
COL 6-10 =	42
COL 11-15 =	3
COL 16-20 =	2
COL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	1.9643	1.7548	0.8881	0.8667	0.5000
SIGMAS	1	2	3	4	5
	0.6622	0.6562	0.9950	0.9899	0.5000
R MATRIX	1	2	3	4	5
1	1.0000	0.7558	0.3285	0.1707	0.0539
2	0.7558	1.0000	0.3376	0.3236	0.0327
3	0.3285	0.3376	1.0000	-0.7814	0.8925
4	0.1707	0.3236	-0.7814	1.0000	-0.8755
5	0.0539	0.0327	0.8925	-0.8755	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.7700 RSQ = 0.5929 37 ITERATIONS.

V	BETA	B
3	1.3686	0.9108
4	0.9463	0.6330
5	-0.3390	-0.4490
REG. CONST. =		0.8313

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.5712

P = 5 RSQ = 0.5720

R = 0.7563 RSQ = 0.5720 2 ITERATIONS.

V	BETA	B
2	0.7548	0.7617
5	0.0293	0.0388
REG. CCNST. =		0.6083

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.5712

R = 0.7558 RSQ = 0.5712 1 ITERATIONS.

V	BETA	B
2	0.7558	0.7627
REG. CCNST. =		0.6260

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.5929 MODEL 1

RSQ REDUCED = 0.5720 MODEL 2

DIFFERENCE = 0.0209

DFN = 1. DFD = 38. F-RATIO = 1.950 P = 0.1674

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.5720 MODEL 2

RSQ REDUCED = 0.5712 MODEL 3

DIFFERENCE = 0.0009

DFN = 1. DFD = 39. F-RATIO = 0.078 P = 0.7779

*** OUTPUT FROM PROGRAM REGRAN ***

GRADE 3 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- COMPREHENSION G.E.

PARAMETERS

CL 1-5 =	5
CL 6-10 =	28
CL 11-15 =	3
CL 16-20 =	2
CL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	2.9464	2.7964	1.4036	1.3929	0.5000

SIGMAS	1	2	3	4	5
	0.8748	0.6527	1.4848	1.4599	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.7683	-0.0609	0.4054	-0.2490
2	0.7683	1.0000	0.2576	0.1851	0.0164
3	-0.0609	0.2576	1.0000	-0.9019	0.9453
4	0.4054	0.1851	-0.9019	1.0000	-0.9541
5	-0.2490	0.0164	0.9453	-0.9541	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3- 5

R = 0.8137 RSQ = 0.6621

2 ITERATIONS.

V	BETA	B
3	1.6330	0.9621
4	1.8782	1.1255
5	0.00	0.00
REG. CONST. =		0.0284

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.5903

P = 5 RSQ = 0.6588

R = 0.8117 RSQ = 0.6588 2 ITERATIONS.

V	BETA	B
2	0.7726	1.0355
5	-0.2617	-0.4579
REG. CONST. =		0.2796

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.5903

R = 0.7683 RSQ = 0.5903 1 ITERATIONS.

V	BETA	B
2	0.7683	1.0298
REG. CONST. =		0.0668

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.6621 MODEL 1

RSQ REDUCED = 0.6588 MODEL 2

DIFFERENCE = 0.0033

DFN = 1. DFD = 24. F-RATIO = 0.232 P = 0.6392

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.6588 MODEL 2

RSQ REDUCED = 0.5903 MODEL 3

DIFFERENCE = 0.0685

DFN = 1. DFD = 25. F-RATIO = 5.017 P = 0.0323

*** OUTPUT FROM PROGRAM REGAN ***

GRADE 4 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- COMPREHENSION G.E.

PARAMETERS

CCL 1-5 = 5
 CCL 6-10 = 34
 CCL 11-15 = 3
 CCL 16-20 = 2
 CCL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	3.8529	3.5000	1.7441	1.7559	0.5000

SIGMAS	1	2	3	4	5
	1.6384	1.4381	1.9737	2.0731	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.9149	0.3196	0.3304	0.0036
2	0.9149	1.0000	0.2935	0.4143	-0.0082
3	0.3196	0.2935	1.0000	-0.7485	0.8837
4	0.3304	0.4143	-0.7485	1.0000	-0.8470
5	0.0036	-0.0082	0.8837	-0.8470	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.9221 RSQ = 0.8503 32 ITERATIONS.

V	BETA	B
3	1.4347	1.1910
4	1.1886	0.9394
5	-0.2545	-0.8340
REG. CONST.		0.5433

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.8370

P = 5 RSQ = 0.8371

R = 0.9149 RSQ = 0.8371 2 ITERATIONS.

V	BETA	B
2	0.9149	1.0423
5	0.0111	0.0363
REG. CONST. =		0.1866

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.8370

R = 0.9149 RSQ = 0.8370 1 ITERATIONS.

V	BETA	B
2	0.9149	1.0422
REG. CONST. =		0.2051

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.8503 MODEL 1

RSQ REDUCED = 0.8371 MODEL 2

DIFFERENCE = 0.0132

DFN = 1. DFD = 30. F-RATIO = 2.652 P = 0.1103

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.8371 MODEL 2

RSQ REDUCED = 0.8370 MODEL 3

DIFFERENCE = 0.0001

DFN = 1. DFD = 31. F-RATIO = 0.023 P = 0.8741

*** OUTPUT FROM PROGRAM REGRAN ***

PAGE 5 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- COMPREHENSION G.E.

PARAMETERS

CL 1-5 =	5
CL 6-10 =	42
CL 11-15 =	3
CL 16-20 =	2
CL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	4.5238	4.4167	2.1571	2.2595	0.5000

IGMAS	1	2	3	4	5
	1.2440	1.1479	2.3239	2.3802	0.5000

MATRIX	1	2	3	4	5
1	1.0000	0.7117	0.1526	0.1943	-0.0498
2	0.7117	1.0000	0.1973	0.2896	-0.0892
3	0.1526	0.1973	1.0000	-0.8812	0.9282
4	0.1943	0.2896	-0.8812	1.0000	-0.9493
5	-0.0498	-0.0892	0.9282	-0.9493	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

t = 0.7118, RSQ = 0.5067 2 ITERATIONS.

V	BETA	B
3	1.4485	0.7754
4	1.4706	0.7686
5	0.0	0.0
REG. CONST. =		1.1145

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.5065

P = 5 RSQ = 0.5067

R = 0.7118 RSQ = 0.5067 2 ITERATIONS.

V	BETA	B
2	0.7129	0.7727
5	0.0138	0.0344
REG. CONST. =		1.0941

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.5065

R = 0.7117 RSQ = 0.5065 1 ITERATIONS.

V	BETA	B
2	0.7117	0.7713
REG. CONST. =		1.1172

F-TEST 1 MODEL 2 VS MODEL 3

0580

RSQ FULL = 0.5067 MODEL 2

RSQ REDUCED = 0.5065 MODEL 3

DIFFERENCE = 0.0002

DFN = 1. DFD = 39. F-RATIO = 0.015 P = 0.8988

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Comparisons of At-Home Participants and Controls on ITBS Reading Skills Areas.

Level 7

<u>Variable</u>	<u>Description</u>
1	Skill area posttest raw score.
2	Skill area pretest raw score.
3	Skill area pretest raw score if At-Home participant; 0, otherwise.
4	Skill area pretest raw score if control; 0, otherwise.
5	1 if At-Home participant; 0, otherwise.

*** OUTPUT FROM PROGRAM REGAN ***

LEVEL 7 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: SILENT

PARAMETERS

OL 1-5 =	5
OL 6-10 =	84
OL 11-15 =	3
OL 16-20 =	2
OL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	1.5714	1.4643	0.7143	0.7500	0.5000

SIGMAS	1	2	3	4	5
	1.0152	0.8789	0.9583	0.9621	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.2764	0.1189	0.1341	0.0704
2	0.2764	1.0000	0.4543	0.4611	-0.0406
3	0.1189	0.4543	1.0000	-0.5811	0.7454
4	0.1341	0.4611	-0.5811	1.0000	-0.7796
5	0.0704	-0.0406	0.7454	-0.7796	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.3253 RSQ = 0.1059 12 ITERATIONS.

V	BETA	B
3	0.1436	0.1522
4	0.4836	0.5103
5	0.3403	0.6909
REG. CONST. =		0.7346

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.0764

P = 5 RSQ = 0.0830

R = 0.2882 RSQ = 0.0830 2 ITERATIONS.

V	BETA	B
2	0.2797	0.3230
5	0.0817	0.1659
REG. CONST. =		1.0154

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.0764

R = 0.2764 RSQ = 0.0764 1 ITERATIONS.

V	BETA	B
2	0.2764	0.3192
REG. CONST. =		1.1040

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.1059 MODEL 1

RSQ REDUCED = 0.0830 MODEL 2

DIFFERENCE = 0.0228

DFN = 1. DFD = 80. F-RATIO = 2.040 P = 0.1534

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.0830 MODEL 2

RSQ REDUCED = 0.0764 MODEL 3

DIFFERENCE = 0.0067

DFN = 1. DFD = 81. F-RATIO = 0.589 P = 0.4513

*** OUTPUT FROM PROGRAM REGRAN ***

VEL 7 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: SUBSTITUTIONS

PARAMETERS

IL 1-5 =	5
IL 6-10 =	84
IL 11-15 =	3
IL 16-20 =	2
IL 21-25 =	1

INTERCORRELATION ANALYSIS.

EANS	1	2	3	4	5
	17.1190	16.1905	7.9524	8.2381	0.5000

IGMAS	1	2	3	4	5
	2.2488	3.1148	8.3137	8.4623	0.5000

MATRIX	1	2	3	4	5
1	1.0000	0.5389	0.1455	0.0554	0.0423
2	0.5389	1.0000	0.1392	0.2313	-0.0917
3	0.1455	0.1392	1.0000	-0.9312	0.9565
4	0.0554	0.2313	-0.9312	1.0000	-0.9735
5	0.0423	-0.0917	0.9565	-0.9735	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.5567 RSQ = 0.3099

97 ITERATIONS.

V	BETA	B
3	1.2703	0.3436
4	1.8083	0.4806
5	0.5877	2.6433
REG. CONST. =		9.1060

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.2904

P = 5 RSQ = 0.2989

R = 0.5467 RSQ = 0.2989 2 ITERATIONS.

V	BETA	B
2	0.5474	0.3952
5	0.0926	0.4163
REG. CONST. =		10.5120

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.2904

R = 0.5389 RSQ = 0.2904 1 ITERATIONS.

V	BETA	B
2	0.5389	0.3891
REG. CONST. =		10.8194

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.3099 MODEL 1

RSQ REDUCED = 0.2989 MODEL 2

DIFFERENCE = 0.0110

DFN = 1. DFD = 80. F-RATIO = 1.276 P = 0.2610

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.2989 MODEL 2

RSQ REDUCED = 0.2904 MODEL 3

DIFFERENCE = 0.0085

DFN = 1. DFD = 81. F-RATIO = 0.982 P = 0.3257

*** OUTPUT FROM PROGRAM REGRAN ***

VEL 7 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: SOUNDS

PARAMETERS

IL 1-5 = 5
 IL 6-10 = 84
 IL 11-15 = 3
 IL 16-20 = 2
 IL 21-25 = 1

INTERCORRELATION ANALYSIS.

EANS	1	2	3	4	5
	11.0833	11.0119	5.3929	5.6190	0.5000

IGMAS	1	2	3	4	5
	3.1099	3.1187	5.8778	5.9819	0.5000

MATRIX	1	2	3	4	5
1	1.0000	0.5437	0.1819	0.1047	0.0038
2	0.5437	1.0000	0.2316	0.2938	-0.0725
3	0.1819	0.2316	1.0000	-0.8618	0.9175
4	0.1047	0.2938	-0.8618	1.0000	-0.9393
5	0.0038	-0.0725	0.9175	-0.9393	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3- 5

R = 0.5484 RSQ = 0.3007

37 ITERATIONS.

V	BETA	B
3	1.1110	0.5878
4	0.9468	0.4922
5	-0.1262	-0.7851
REG. CCNST. =		5.5399

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.2956

P = 5 RSQ = 0.2974

R = 0.5454 RSQ = 0.2974

2 ITERATIONS.

V	BETA	B
2	0.5468	0.5453
5	0.0435	0.2705
REG. CONST. =		4.9435

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.2956

R = 0.5437 RSQ = 0.2956

1 ITERATIONS.

V	BETA	B
2	0.5437	0.5421
REG. CONST. =		5.1134

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.3007 MODEL 1

RSQ REDUCED = 0.2974 MODEL 2

DIFFERENCE = 0.0033

DFN = 1. DFD = 80. F-RATIO = 0.377 P = 0.5483

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.2974 MODEL 2

RSQ REDUCED = 0.2956 MODEL 3

DIFFERENCE = 0.0019

DFN = 1. DFD = 81. F-RATIO = 0.217 P = 0.6477

*** OUTPUT FROM PROGRAM REGAN ***

LEVEL 7 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: RHYMES

PARAMETERS

OL 1-5 =	5
OL 6-10 =	84
OL 11-15 =	3
OL 16-20 =	2
OL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	4.7024	4.5833	2.3095	2.2738	0.5000

SIGMAS	1	2	3	4	5
	2.0165	1.6634	2.5634	2.5882	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.3534	0.1767	0.0521	0.1004
2	0.3534	1.0000	0.3094	0.3362	0.0215
3	0.1767	0.3094	1.0000	-0.7915	0.9010
4	0.0521	0.3362	-0.7915	1.0000	-0.8785
5	0.1004	0.0215	0.9010	-0.8785	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.3686 RSQ = 0.1358 31 ITERATIONS.

V	BETA	B
3	0.4723	0.3715
4	0.6059	0.4721
5	0.2072	0.8355
REG. CONST. =		2.3533

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.1249

P = 5 RSQ = 0.1335

R = 0.3654 RSQ = 0.1335 2 ITERATIONS.

V	BETA	B
2	0.3515	0.4261
5	0.0928	0.3743

REG. CONST. = 2.5625

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.1249

R = 0.3534 RSQ = 0.1249 1 ITERATIONS.

V	BETA	B
2	0.3534	0.4285

REG. CONST. = 2.7386

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.1358 MODEL 1

RSQ REDUCED = 0.1335 MODEL 2

DIFFERENCE = 0.0023

DFN = 1. DFD = 80. F-RATIO = 0.213 P = 0.6507

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.1335 MODEL 2

RSQ REDUCED = 0.1249 MODEL 3

DIFFERENCE = 0.0086

DFN = 1. DFD = 81. F-RATIO = 0.805 P = 0.3757

*** OUTPUT FROM PROGRAM REGAN ***

LEVEL 7 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: Noun

PARAMETERS

CGL 1-5 = 5
 COL 6-10 = 82
 CGL 11-15 = 3
 COL 16-20 = 2
 CGL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	6.4512	4.8659	2.4756	2.3902	0.5000

SIGMAS	1	2	3	4	5
	2.4602	2.3621	2.9887	2.9124	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.6526	0.2577	0.2648	0.0149
2	0.6526	1.0000	0.4271	0.3728	0.0361
3	0.2577	0.4271	1.0000	-0.6798	0.8283
4	0.2648	0.3728	-0.6798	1.0000	-0.8207
5	0.0149	0.0361	0.8283	-0.8207	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.6535 RSQ = 0.4271 15 ITERATIONS.

V	BETA	B
3	0.7907	0.6508
4	0.8406	0.7101
5	0.0499	0.2454
REG. CONST. =		3.0199

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.4258

P = 5 RSQ = 0.4259

R = 0.6526 RSQ = 0.4259 2 ITERATICS.

V	BETA	B
2	0.6529	0.6800
5	-0.0087	-0.0429
REG. CONST. =		3.1639

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.4258

R = 0.6526 RSQ = 0.4258 1 ITERATICS.

V	BETA	B
2	0.6526	0.6797
REG. CONST. =		3.1441

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.4271 MODEL 1

RSQ REDUCED = 0.4259 MODEL 2

DIFFERENCE = 0.0012

DFN = 1. DFD = 78. F-RATIO = 0.162 P = 0.6914

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.4259 MODEL 2

RSQ REDUCED = 0.4258 MODEL 3

DIFFERENCE = 0.0001

DFN = 1. DFD = 79. F-RATIO = 0.010 P = 0.9155

*** OUTPUT FROM PROGRAM REGRAN ***

LEVEL 7 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: VERBS

PARAMETERS

COL 1-5 = 5
 COL 6-10 = 82
 CCL 11-15 = 3
 COL 16-20 = 2
 COL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	5.2927	5.1951	2.6220	2.5732	0.5000
SIGMAS	1	2	3	4	5
	1.8511	1.7630	2.8697	2.8925	0.5000
R MATRIX	1	2	3	4	5
1	1.0000	0.5019	0.1769	0.1304	0.0659
2	0.5019	1.0000	0.2942	0.3176	0.0277
3	0.1769	0.2942	1.0000	-0.8128	0.9137
4	0.1304	0.3176	-0.8128	1.0000	-0.8896
5	0.0659	0.0277	0.9137	-0.8896	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.5079 RSQ = 0.2580 36 ITERATIONS.

V	BETA	B
3	0.7235	0.4667
4	0.8962	0.5735
5	0.1990	0.7366
REG. CONST. =		2.2249

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.2519

P = 5 RSQ = 0.2546

R = 0.5046

RSQ = 0.2546

2 ITERATICS.

V	BETA	B
2	0.5005	0.5255
5	0.0520	0.1926

REG. CONST. = 2.4665

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.2519

R = 0.5019

RSQ = 0.2519

1 ITERATICS.

V	BETA	B
2	0.5019	0.5270

REG. CONST. = 2.5549

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.2580 MODEL 1

RSQ REDUCED = 0.2546 MODEL 2

DIFFERENCE = 0.0033

DFN = 1. DFD = 78. F-RATIO = 0.352 P = 0.5617

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.2546 MODEL 2

RSQ REDUCED = 0.2519 MODEL 3

DIFFERENCE = 0.0027

DFN = 1. DFD = 79. F-RATIO = 0.287 P = 0.6004

*** OUTPUT FROM PROGRAM REGRAN ***

LEVEL 7 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTRCL -- SKILL: M & C

PARAMETERS

COL 1-5 = 5
 COL 6-10 = 82
 COL 11-15 = 3
 COL 16-20 = 2
 COL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	3.3902	2.7805	1.4512	1.3293	0.5000

SIGMAS	1	2	3	4	5
	1.5676	1.4735	1.7261	1.7465	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.4489	0.2053	0.1758	0.0778
2	0.4489	1.0000	0.4129	0.4356	0.0828
3	0.2053	0.4129	1.0000	-0.6399	0.8408
4	0.1758	0.4356	-0.6399	1.0000	-0.7611
5	0.0778	0.0828	0.8408	-0.7611	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3- 5

R = 0.4518 RSQ = 0.2041 18 ITERATIONS.

V	BETA	B
3	0.4852	0.4407
4	0.5547	0.4979
5	0.0893	0.2800
REG. CONST. =		1.9489

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.2015

P = 5 RSQ = 0.2032

R = 0.4507 RSQ = 0.2032 2 ITERATIONS.

V	BETA	B
2	0.4455	0.4739
5	0.0409	0.1283

REG. CONST. = 2.0083

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.2015

R = 0.4489 RSQ = 0.2015 1 ITERATIONS.

V	BETA	B
2	0.4489	0.4775

REG. CONST. = 2.0625

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.2041 MODEL 1

RSQ REDUCED = 0.2032 MODEL 2

DIFFERENCE = 0.0009

DFN = 1. DFD = 78. F-RATIO = 0.092 P = 0.7601

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.2032 MODEL 2

RSQ REDUCED = 0.2015 MODEL 3

DIFFERENCE = 0.0017

DFN = 1. DFD = 79. F-RATIO = 0.165 P = 0.6886

*** OUTPUT FROM PROGRAM REGAN ***

LEVEL 7 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: INFERENCES

PARAMETERS

COL 1-5 = 5
 COL 6-10 = 80
 COL 11-15 = 3
 COL 16-20 = 2
 COL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	22.0750	18.5875	9.1500	9.4375	0.5000

SIGMAS	1	2	3	4	5
	6.2525	6.5949	10.3924	10.4017	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.6862	0.3322	0.1031	0.1000
2	0.6862	1.0000	0.3159	0.3184	-0.0436
3	0.3322	0.3159	1.0000	-0.7988	0.8804
4	0.1031	0.3184	-0.7988	1.0000	-0.9073
5	0.1000	-0.0436	0.8804	-0.9073	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.6983 RSQ = 0.4876 28 ITERATIONS.

V	BETA	B
3	1.0982	0.6607
4	1.0823	0.6506
5	0.1120	1.4002
REG. CONST. =		9.1893

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.4708

P = 5 RSQ = 0.4877

R = 0.6984 RSQ = 0.4877 2 ITERATIONS.

V	BETA	B
2	0.6918	0.6559
5	0.1301	1.6272
REG. CONST. =		9.0696

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.4708

R = 0.6862 RSQ = 0.4708 1 ITERATIONS.

V	BETA	B
2	0.6862	0.6505
REG. CONST. =		9.9831

F-TEST 1 MODEL 2 VS MODEL 3

RSQ FULL = 0.4877 MODEL 2

RSQ REDUCED = 0.4708 MODEL 3

DIFFERENCE = 0.0169

DFN = 1. DFD = 77. F-RATIO = 2.540 P = 0.1111

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*** OUTPUT FROM PROGRAM REGAN ***

LEVEL 7 -- AT HOME PROGRAM 12/80 10 WEEK VS CONTROL -- SKILL: FACTS

PARAMETERS

COL 1-5 = 5
 COL 6-10 = 80
 COL 11-15 = 3
 COL 16-20 = 2
 COL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	17.3500	15.0375	7.1250	7.9125	0.5000
SIGMAS	1	2	3	4	5
	4.6155	4.5701	7.8810	8.4575	0.5000
R MATRIX	1	2	3	4	5
1	1.0000	0.5517	0.2180	0.0949	0.0325
2	0.5517	1.0000	0.1592	0.3920	-0.1723
3	0.2180	0.1592	1.0000	-0.8458	0.9041
4	0.0949	0.3920	-0.8458	1.0000	-0.9356
5	0.0325	-0.1723	0.9041	-0.9356	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.5672

RSQ = 0.3218

2 ITERATIONS.

V	BETA	B
3	1.0483	0.6139
4	0.9816	0.5357
5	0.0	0.0
REG. CONST. =		8.7372

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.3044

P = 5 RSQ = 0.3211

R = 0.5667 RSQ = 0.3211 2 ITERATIONS.

V	BETA	B
2	0.5743	0.5800
5	0.1315	1.2136
REG. CONST. =		8.0209

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.3044

R = 0.5517 RSQ = 0.3044 1 ITERATIONS.

V	BETA	B
2	0.5517	0.5572
REG. CONST. =		8.9717

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.3218 MODEL 1

RSQ REDUCED = 0.3211 MODEL 2

DIFFERENCE = 0.0006

DFN = 1. DFD = 76. F-RATIO = 0.071 P = 0.7871

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.3211 MODEL 2

RSQ REDUCED = 0.3044 MODEL 3

DIFFERENCE = 0.0168

DFN = 1. DFD = 77. F-RATIO = 1.902 P = 0.1684

*** OUTPUT FROM PROGRAM REGAN ***

LEVEL 7 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: GENERALIZATIONS

PARAMETERS

COL 1-5 = 5
 COL 6-10 = 80
 COL 11-15 = 3
 COL 16-20 = 2
 COL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	1.4500	1.1625	0.5500	0.6125	0.5000
STGMAS	1	2	3	4	5
	0.9069	0.9144	0.8500	0.8873	0.5000
R MATRIX	1	2	3	4	5
1	1.0000	0.2736	0.2140	0.0769	0.0827
2	0.2736	1.0000	0.4962	0.5552	-0.0684
3	0.2140	0.4962	1.0000	-0.4467	0.6471
4	0.0769	0.5552	-0.4467	1.0000	-0.6903
5	0.0827	-0.0684	0.6471	-0.6903	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.2923 RSQ = 0.0854

10 ITERATIONS.

V	BETA	B
3	0.2787	0.2973
4	0.2542	0.2598
5	0.0756	0.1371
REG. CONST. =		1.0588

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.0748

P = 5 RSQ = 0.0852

R = 0.2919 RSQ = 0.0852 2 ITERATIONS.

V	BETA	B
2	0.2805	0.2783
5	0.1019	0.1848
REG. CONST. =		1.0341

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.0748

R = 0.2736 RSQ = 0.0748 1 ITERATIONS.

V	BETA	B
2	0.2736	0.2714
REG. CONST. =		1.1346

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.0854 MODEL 1

RSQ REDUCED = 0.0852 MODEL 2

DIFFERENCE = 0.0003

DFN = 1. DFD = 76. F-RATIO = 0.022 P = 0.8768

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.0852 MODEL 2

RSQ REDUCED = 0.0748 MODEL 3

DIFFERENCE = 0.0103

DFN = 1. DFD = 77. F-RATIO = 0.869 P = 0.3565

Comparisons of At-Home Participants and Controls on ITBS Reading Skills Areas.

Level 8

<u>Variable</u>	<u>Description</u>
1	Skill area posttest raw score.
2	Skill area pretest raw score.
3	Skill area pretest raw score if At-Home participant; 0, otherwise.
4	Skill area pretest raw score if control; 0, otherwise.
5	1 if At-Home participant; 0, otherwise.

*** OUTPUT FROM PROGRAM REGAN ***

LEVEL 8 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: SILENT

PARAMETERS

COL 1-5 = 5
 COL 6-10 = 40
 COL 11-15 = 3
 COL 16-20 = 2
 COL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	2.2000	1.8250	0.8750	0.9500	0.5000
SIGMAS	1	2	3	4	5
	1.1874	1.1808	1.2487	1.2237	0.5000
R MATRIX	1	2	3	4	5
1	1.0000	0.2033	-0.1517	0.3510	-0.2526
2	0.2033	1.0000	0.4938	0.4611	-0.0635
3	-0.1517	0.4938	1.0000	-0.5440	0.7007
4	0.3510	0.4611	-0.5440	1.0000	-0.7763
5	-0.2526	-0.0635	0.7007	-0.7763	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.3541 RSQ = 0.1254 4 ITERATIONS.

V	BETA	B
3	0.0521	0.0495
4	0.3864	0.3750
5	0.0091	0.0216
REG. CONST. =		1.7897

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 5 RSQ = 0.0638

P = 2 RSQ = 0.0990

R = 0.3147 RSQ = 0.0990 2 ITERATICS.

V	BETA	B
2	0.1880	0.1890

5	-0.2407	-0.5716
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REG. CONST. = 2.1409

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.0413

R = 0.2033 RSQ = 0.0413 1 ITERATICS.

V	BETA	B
2	0.2033	0.2044

REG. CONST. = 1.8270

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.1254 MODEL 1

RSQ REDUCED = 0.0990 MODEL 2

DIFFERENCE = 0.0264

DFN = 1. DFD = 36. F-RATIO = 1.087 P = 0.3048

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.0990 MODEL 2

RSQ REDUCED = 0.0413 MODEL 3

DIFFERENCE = 0.0577

DFN = 1. DFD = 37. F-RATIO = 2.370 P = 0.1285

*** OUTPUT FROM PROGRAM REGRAN ***

DEL 8 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: SUBSTITUTIONS

PARAMETERS

L 1-5 = 5
 L 6-10 = 40
 L 11-15 = 3
 L 16-20 = 2
 L 21-25 = 1

INTERCORRELATION ANALYSIS.

ANS	1	2	3	4	5
	4.4500	4.1500	1.9750	2.1750	0.5000
GMAS	1	2	3	4	5
	1.5322	1.5256	2.3183	2.3546	0.5000
MATRIX	1	2	3	4	5
1	1.0000	0.6342	0.0102	0.4009	-0.2937
2	0.6342	1.0000	0.3050	0.3476	-0.1311
3	0.0102	0.3050	1.0000	-0.7869	0.8519
4	0.4009	0.3476	-0.7869	1.0000	-0.9237
5	-0.2937	-0.1311	0.8519	-0.9237	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.6693 RSQ = 0.4479

34 ITERATIONS.

V	BETA	B
3	0.9442	0.6240
4	0.8995	0.5853
5	-0.2646	-0.8108
REG. CONST. =		2.3500

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.4022

P = 5 RSQ = 0.4474

R = 0.6688 RSQ = 0.4474 2 ITERATIONS.

V	BETA	B
2	0.6061	0.6087
5	-0.2142	-0.6565
REG. CONST. =		2.2520

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.4022

R = 0.6342 RSQ = 0.4022 1 ITERATIONS.

V	BETA	B
2	0.6342	0.6369
REG. CONST. =		1.8067

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.4479 MODEL 1

RSQ REDUCED = 0.4474 MODEL 2

DIFFERENCE = 0.0006

DFN = 1. DFD = 36. F-RATIO = 0.038 P = 0.8417

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.4474 MODEL 2

RSQ REDUCED = 0.4022 MODEL 3

DIFFERENCE = 0.0451

DFN = 1. DFD = 37. F-RATIO = 3.020 P = 0.0870

*** OUTPUT FROM PROGRAM REGRAN ***

LEVEL 8 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: SOUNDS

PARAMETERS

COL 1-5 =	5
COL 6-10 =	40
COL 11-15 =	3
COL 16-20 =	2
COL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	13.6250	13.5000	6.5500	6.9500	0.5000

SIGMAS	1	2	3	4	5
	3.8710	3.4132	6.9748	7.3517	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.3415	0.0141	0.1452	-0.1098
2	0.3415	1.0000	0.1313	0.3397	-0.1172
3	0.0141	0.1313	1.0000	-0.8878	0.9391
4	0.1452	0.3397	-0.8878	1.0000	-0.9454
5	-0.1098	-0.1172	0.9391	-0.9454	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.3800 RSQ = 0.1444 .59 ITERATIONS.

V	BETA	B
3	0.9823	0.5452
4	0.4164	0.2193
5	-0.6386	-4.9438
REG. CONST. =		11.0022

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.1166

P = 5 RSQ = 0.1216

R = 0.3487 RSQ = 0.1216 2 ITERATIONS.

V	BETA	B
2	0.3332	0.3779
5	-0.0707	-0.5477
REG. CONST. =		8.7967

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.1166

R = 0.3415 RSQ = 0.1166 1 ITERATIONS.

V	BETA	B
2	0.3415	0.3873
REG. CONST. =		8.3959

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.1444 MODEL 1

RSQ REDUCED = 0.1216 MODEL 2

DIFFERENCE = 0.0229

DFN = 1. DFD = 36. F-RATIO = 0.962 P = 0.3347

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.1216 MODEL 2

RSQ REDUCED = 0.1166 MODEL 3

DIFFERENCE = 0.0049

DFN = 1. DFD = 37. F-RATIO = 0.208 P = 0.6555

*** OUTPUT FROM PROGRAM REGRAN ***

LEVEL 8 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTRCL -- SKILL: Nouns

PARAMETERS

COL 1-5 = 5
 COL 6-10 = 40
 COL 11-15 = 3
 COL 16-20 = 2
 COL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	3.5000	3.1750	1.4500	1.7250	0.5000
SIGMAS	1	2	3	4	5
	1.8974	1.7591	2.0118	2.0123	0.5000
R MATRIX	1	2	3	4	5
1	1.0000	0.4307	0.0262	0.3503	-0.1581
2	0.4307	1.0000	0.4369	0.4373	-0.1563
3	0.0262	0.4369	1.0000	-0.6178	0.7207
4	0.3503	0.4373	-0.6178	1.0000	-0.8572
5	-0.1581	-0.1563	0.7207	-0.8572	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.4897 RSQ = 0.2398 18 ITERATIONS.

V	BETA	B
3	0.2958	0.2790
4	0.8051	0.7591
5	0.3161	1.1995
REG. INST. =		1.1862

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.1855

P = 5 RSQ = 0.1939

R = 0.4404

RSQ = 0.1939

2 ITERATIONS.

V	BETA	B
2	0.4161	0.4489
5	-0.0931	-0.3531

REG. CONST. = 2.2514

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.1855

R = 0.4307

RSQ = 0.1855

1 ITERATIONS.

V	BETA	B
2	0.4307	0.4646

REG. CONST. = 2.0250

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.2398 MODEL 1

RSQ REDUCED = 0.1939 MODEL 2

DIFFERENCE = 0.0459

DFN = 1. DFD = 36. F-RATIO = 2.172 P = 0.1457

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.1939 MODEL 2

RSQ REDUCED = 0.1855 MODEL 3

DIFFERENCE = 0.0084

DFN = 1. DFD = 37. F-RATIO = 0.388 P = 0.5442

*** OUTPUT FROM PROGRAM REGRAN ***

DEL 8 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTRL -- SKILL: VERBS

PARAMETERS

1-5 = 5
6-10 = 40
11-15 = 3
16-20 = 2
21-25 = 1

INTERCORRELATION ANALYSIS.

INS	1	2	3	4	5
	3.9750	3.1750	1.7000	1.4750	0.5000

PMAS	1	2	3	4	5
	3.0942	2.4788	2.3367	2.3873	0.5000

MATRIX	1	2	3	4	5
1	1.0000	0.7372	0.1926	0.5769	-0.1535
2	0.7372	1.0000	0.5097	0.5394	0.0908
3	0.1926	0.5097	1.0000	-0.4495	0.7275
4	0.5769	0.5394	-0.4495	1.0000	-0.6178
5	-0.1535	0.0908	0.7275	-0.6178	1.0000

DEL 1 M1 CRITERION = 1

PREDICTORS = 3-5
= 0.7721 RSQ = 0.5962 12 ITERATIONS.

V	BETA	B
3	0.6431	0.8516
4	0.7828	1.0146
5	-0.1347	-0.8333
EG. CONST.	=	1.4475

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.5435

P = 5 RSQ = 0.5925

R = 0.7697 RSQ = 0.5925 2 ITERATIONS.

V	BETA	B
2	0.7574	0.9454
5	-0.2223	-1.3754

REG. CONST. = 1.6610

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.5435

R = 0.7372 RSQ = 0.5435 1 ITERATIONS.

V	BETA	B
2	0.7372	0.9203

REG. CONST. = 1.0532

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.5962 MODEL 1

RSQ REDUCED = 0.5925 MODEL 2

DIFFERENCE = 0.0037

DFN = 1. DFD = 36. F-RATIO = 0.329 P = 0.5765

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.5925 MODEL 2

RSQ REDUCED = 0.5435 MODEL 3

DIFFERENCE = 0.0490

DFN = 1. DFD = 37. F-RATIO = 4.448 P = 0.0394

*** OUTPUT FROM PROGRAM REGAN ***

LEVEL 8 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: M & C

PARAMETERS

COL 1-5 = 5
 COL 6-10 = 40
 COL 11-15 = 3
 COL 16-20 = 2
 COL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	3.0750	2.1750	1.0000	1.1750	0.5000
SIGMAS	1	2	3	4	5
	1.9797	1.3395	1.3964	1.4813	0.5000
R MATRIX	1	2	3	4	5
1	1.0000	0.5512	0.0633	0.4388	-0.0884
2	0.5512	1.0000	0.4143	0.5137	-0.1306
3	0.0633	0.4143	1.0000	-0.5680	0.7161
4	0.4388	0.5137	-0.5680	1.0000	-0.7932
5	-0.0884	-0.1306	0.7161	-0.7932	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.6382 RSQ = 0.4073 14 ITERATIONS.

V	BETA	B
3	0.2541	0.3602
4	0.9962	1.3313
5	0.5198	2.0582
REG. CONST. =		0.1214

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.3039

P = 5 RSQ = 0.3041

R = 0.5515 RSQ = 0.3041 2 ITERATIONS.

V	BETA	B
2	0.5491	0.8115
5	-0.0167	-0.0660
REG. CONST. =		1.3430

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.3039

R = 0.5512 RSQ = 0.3039 1 ITERATIONS.

V	BETA	B
2	0.5512	0.8147
REG. CONST. =		1.3030

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.4073 MODEL 1

RSQ REDUCED = 0.3041 MODEL 2

DIFFERENCE = 0.1031

DFN = 1. DFD = 36. F-RATIO = 6.262 P = 0.0162

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.3041 MODEL 2

RSQ REDUCED = 0.3039 MODEL 3

DIFFERENCE = 0.0003

DFN = 1. DFD = 37. F-RATIO = 0.015 P = 0.9005

*** OUTPUT FROM PROGRAM REGAN ***

LEVEL 8 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: INFERENCES

PARAMETERS

OL 1-5 =	5
OL 6-10 =	40
OL 11-15 =	3
OL 16-20 =	2
OL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	16.3500	14.6000	7.2000	7.4000	0.5000
STDMAS	1	2	3	4	5
	6.1382	5.7871	8.2801	8.4552	0.5000
MATRIX	1	2	3	4	5
1	1.0000	0.6240	0.2549	0.1775	0.0407
2	0.6240	1.0000	0.3189	0.3722	-0.0346
3	0.2549	0.3189	1.0000	-0.7610	0.8696
4	0.1775	0.3722	-0.7610	1.0000	-0.8752
5	0.0407	-0.0346	0.8696	-0.8752	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.6270 RSQ = 0.3932 14 ITERATIONS.

V	BETA	B
3	0.9110	0.6754
4	0.8995	0.6530
5	0.0327	0.4013
REG. CONST. =		6.4544

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.3893

P = 5 RSQ = 0.3932

R = 0.6271 RSQ = 0.3932 2 ITERATIONS.

V	BETA	B
2	0.6261	0.6641
5	0.0624	0.7657
REG. CONST. =		6.2709

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.3893

R = 0.6240 RSQ = 0.3893 1 ITERATIONS.

V	BETA	B
2	0.6240	0.6618
REG. CONST. =		6.6871

F-TEST 1 MODEL 2 VS MODEL 3

RSQ FULL = 0.3932 MODEL 2

RSQ REDUCED = 0.3893 MODEL 3

DIFFERENCE = 0.0039

DFN = 1. DFD = 37. F-RATIO = 0.237 P = 0.6346

ILF2631

*** OUTPUT FROM PROGRAM REGRAN ***

LEVEL 8 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: FACTS

PARAMETERS

COL 1-5 = 5
 COL 6-10 = 40
 COL 11-15 = 3
 COL 16-20 = 2
 COL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	13.2000	11.6750	6.0500	5.6250	0.5000

SIGMAS	1	2	3	4	5
	4.5563	4.5847	6.8591	6.4834	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.6554	0.3061	0.1396	0.0549
2	0.6554	1.0000	0.4139	0.2692	0.0927
3	0.3061	0.4139	1.0000	-0.7653	0.8820
4	0.1396	0.2692	-0.7653	1.0000	-0.8676
5	0.0549	0.0927	0.8820	-0.8676	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.6662 RSQ = 0.4438 3 ITERATIONS.

V	BETA	B
3	1.1514	0.7649
4	0.7695	0.5408
5	-0.2931	-2.6710
REG. CONST.		6.8660

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.4295

P = 5 RSQ = 0.4295

R = 0.6554 RSQ = 0.4295 2 ITERATIONS.

V	BETA	B
2	0.6559	0.6519
5	-0.0059	-0.0541
REG. CONST. =		5.6167

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.4295

R = 0.6554 RSQ = 0.4295 1 ITERATIONS.

V	BETA	B
2	0.6554	0.6513
REG. CONST. =		5.5960

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.4438 MODEL 1

RSQ REDUCED = 0.4295 MODEL 2

DIFFERENCE = 0.0143

DFN = 1. DFD = 36. F-RATIO = 0.922 P = 0.3452

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.4295 MODEL 2

RSQ REDUCED = 0.4295 MODEL 3

DIFFERENCE = 0.0000

DFN = 1. DFD = 37. F-RATIO = 0.002 P = 0.9612

*** OUTPUT FROM PROGRAM REGRAN ***

LEVEL 8 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: GENERALIZAITONS

PARAMETERS

COL 1-5 = 5
 COL 6-10 = 40
 COL 11-15 = 3
 COL 16-20 = 2
 COL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	1.8750	1.6500	0.8250	0.8250	0.5000

STIGMAS	1	2	3	4	5
	1.2487	0.9367	1.0219	1.0929	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	-0.1015	-0.1935	0.0939	-0.0601
2	-0.1015	1.0000	0.3800	0.5018	0.0000
3	-0.1935	0.3800	1.0000	-0.6094	0.8073
4	0.0939	0.5018	-0.6094	1.0000	-0.7549
5	-0.0601	0.0000	0.8073	-0.7549	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5
 R = 0.2635 RSQ = 0.0694

9 ITERATIONS.

V	BETA	B
3	-0.4164	-0.5089
4	0.1104	0.1261
5	0.3580	0.8942

R EG. CONST. = 1.7437

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5
P = 2 RSQ = 0.0103
P = 5 RSQ = 0.0139

R = 0.1180 RSQ = 0.0139 2 ITERATICS.

V	BETA	B
2	-0.1015	-0.1353
5	-0.0601	-0.1500

REG. CONST. = 2.1733

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2
P = 2 RSQ = 0.0103

R = 0.1015 RSQ = 0.0103 1 ITERATICS.

V	BETA	B
2	-0.1015	-0.1353

REG. CONST. = 2.0983

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.0694 MODEL 1
RSQ REDUCED = 0.0139 MODEL 2

DIFFERENCE = 0.0555

DFN = 1. DFD = 36. F-RATIC = 2.147 P = 0.1480

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.0139 MODEL 2
RSQ REDUCED = 0.0103 MODEL 3

DIFFERENCE = 0.0036

DFN = 1. DFD = 37. F-RATIC = 0.135 P = 0.7158

Comparisons of At-Home Participants and Controls on ITBS Reading Skill Areas.

Level 9

<u>Variable</u>	<u>Description</u>
1	Skill area posttest raw score.
2	Skill area pretest raw score.
3	Skill area pretest raw score if At-Home participant; 0, otherwise.
4	Skill area pretest raw score if control; 0, otherwise.
5	1 if At-Home participant; 0, otherwise.

*** OUTPUT FROM PROGRAM REGRAN ***

EVEL 09 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: VERBS

PARAMETERS

OL 1-5 =	5
OL 6-10 =	36
OL 11-15 =	3
OL 16-20 =	2
OL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	+.1389	3.3889	1.6389	1.7500	0.5000

IGMAS	1	2	3	4	5
	2.1750	1.6034	1.8879	2.1779	0.5000

MATRIX	1	2	3	4	5
1	1.0000	0.5182	-0.0081	0.3885	-0.2427
2	0.5182	1.0000	0.2299	0.5369	-0.0693
3	-0.0081	0.2299	1.0000	-0.6976	0.8681
4	0.3885	0.5369	-0.6976	1.0000	-0.8035
5	-0.2427	-0.0693	0.8681	-0.8035	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.5754 RSQ = 0.3311 20 ITERATIONS.

V	BETA	B
3	0.8194	0.9440
4	0.5525	0.5517
5	-0.5073	-2.2067
REG. CONST. =		2.7295

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.2685

P = 5 RSQ = 0.3114

R = 0.5581 RSQ = 0.3114 2 ITERATIONS.

V	BETA	B
2	0.5038	0.6834
5	-0.2077	-0.9037
REG. CONST. =		2.2749

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.2685

R = 0.5182 RSQ = 0.2685 1 ITERATIONS.

V	BETA	B
2	0.5182	0.7029
REG. CONST. =		1.7569

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.3311 MODEL 1

RSQ REDUCED = 0.3114 MODEL 2

DIFFERENCE = 0.0197

DFN = 1. DFD = 32. F-RATIO = 0.941 P = 0.3411

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.3114 MODEL 2

RSQ REDUCED = 0.2685 MODEL 3

DIFFERENCE = 0.0430

DFN = 1. DFD = 33. F-RATIO = 2.058 P = 0.1574

*** OUTPUT FROM PROGRAM REGRAN ***

LEVEL 09 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: NOUNS

PARAMETERS

COL 1-5 =	5
COL 6-10 =	36
COL 11-15 =	3
COL 16-20 =	2
COL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	3.2500	2.8056	1.3889	1.4167	0.5000

SIGMAS	1	2	3	4	5
	1.9058	1.7767	1.9333	1.8314	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.6953	0.2375	0.4238	-0.1603
2	0.6953	1.0000	0.5153	0.4261	-0.0156
3	0.2375	0.5153	1.0000	-0.5557	0.7184
4	0.4238	0.4261	-0.5557	1.0000	-0.7735
5	-0.1603	-0.0156	0.7184	-0.7735	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.7117 RSQ = 0.5064 15 ITERATIONS.

V	BETA	B
3	0.7242	0.7138
4	0.7517	0.7822
5	-0.0991	-0.3777
REG. CONST. =		1.3392

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.4834

P = 5 RSQ = 0.5057

R = 0.7112 RSQ = 0.5057 2 ITERATIONS.

V	BETA	B
2	0.6929	0.7433
5	-0.1495	-0.5698
REG. CONST. =		1.4496

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.4834

R = 0.6953 RSQ = 0.4834 1 ITERATIONS.

V	BETA	B
2	0.6953	0.7458
REG. CONST. =		1.1577

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.5064 MODEL 1

RSQ REDUCED = 0.5057 MODEL 2

DIFFERENCE = 0.0007

DFN = 1. DFD = 32. F-RATIO = 0.045 P = 0.8272

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.5057 MODEL 2

RSQ REDUCED = 0.4834 MODEL 3

DIFFERENCE = 0.0223

DFN = 1. DFD = 33. F-RATIO = 1.492 P = 0.2287

*** OUTPUT FROM PROGRAM REGAN ***

LEVEL 09 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: M & C

PARAMETERS

COL 1-5 =	5
COL 6-10 =	36
COL 11-15 =	3
COL 16-20 =	2
COL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	5.5833	4.8056	2.4167	2.3889	0.5000

SIGMAS	1	2	3	4	5
	2.9849	2.1835	2.8419	2.8701	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.6695	0.0303	0.4793	-0.2699
2	0.6695	1.0000	0.3712	0.3933	0.0127
3	0.0303	0.3712	1.0000	-0.7078	0.8504
4	0.4793	0.3933	-0.7078	1.0000	-0.8323
5	-0.2699	0.0127	0.8504	-0.8323	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.7264 RSQ = 0.5277 24 ITERATIONS.

V	BETA	B
3	0.9336	0.9806
4	0.8366	0.8701
5	-0.3646	-2.1768
REG. CONST. =		2.2234

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.4482

P = 5 RSQ = 0.5257

R = 0.7251 RSQ = 0.5257 2 ITERATIONS.

V	BETA	B
2	0.6730	0.9200
5	-0.2784	-1.6622
REG. CONST.	=	1.9931

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.4482

R = 0.6695 RSQ = 0.4482 1 ITERATIONS.

V	BETA	B
2	0.6695	0.9152
REG. CONST.	=	1.1853

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.5277 MODEL 1

RSQ REDUCED = 0.5257 MODEL 2

DIFFERENCE = 0.0020

DFN = 1. DFD = 32. F-RATIO = 0.135 P = 0.7163

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.5257 MODEL 2

RSQ REDUCED = 0.4482 MODEL 3

DIFFERENCE = 0.0775

DFN = 1. DFD = 33. F-RATIO = 5.393 P = 0.0250

*** OUTPUT FROM PROGRAM REGAN ***

LEVEL 09 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: GENERALIZATION

PARAMETERS

CL 1-5 = 5
 CL 6-10 = 36
 CL 11-15 = 3
 CL 16-20 = 2
 CL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	3.5000	2.5833	1.3333	1.2500	0.5000
SIGMAS	1	2	3	4	5
	1.8484	1.5877	1.7951	1.6223	0.5000
MATRIX	1	2	3	4	5
1	1.0000	0.3076	0.0419	0.2547	-0.1202
2	0.3076	1.0000	0.5458	0.3748	0.0525
3	0.0419	0.5458	1.0000	-0.5723	0.7428
4	0.2547	0.3748	-0.5723	1.0000	-0.7705
5	-0.1202	0.0525	0.7428	-0.7705	1.0000

MODEL 1 MI CRITERION = 1

PREDICTORS = 3-5
 R² = 0.3427 RSQ = 0.1175 8 ITERATIONS.

V	BETA	B
3	0.2885	0.2972
4	0.4040	0.4603
5	-0.0206	-0.0762
REG. CONST.		2.5665

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.0946

P = 5 RSQ = 0.1133

R = 0.3366 RSQ = 0.1133 2 ITERATIONS.

V	BETA	B
2	0.3148	0.3665

5	-0.1367	-0.5055
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REG. CONST. = 2.8060

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.0946

R = 0.3076 RSQ = 0.0946 1 ITERATIONS.

V	BETA	B
2	0.3076	0.3581

REG. CONST. = 2.5748

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.1175 MODEL 1

RSQ REDUCED = 0.1133 MODEL 2

DIFFERENCE = 0.0042

DFN = 1. DFD = 32. F-RATIO = 0.152 P = 0.7007

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.1133 MODEL 2

RSQ REDUCED = 0.0946 MODEL 3

DIFFERENCE = 0.0186

DFN = 1. DFD = 33. F-RATIO = 0.694 P = 0.4157

*** OUTPUT FROM PROGRAM REGRAH ***

DEL 09 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: INFERENCES

PARAMETERS

1-5 =	5
6-10 =	36
11-15 =	3
16-20 =	2
21-25 =	1

CORRELATION ANALYSIS.

NS	1	2	3	4	5
	4.6111	4.3056	2.0556	2.2500	0.5000

MAS	1	2	3	4	5
	1.8147	1.6469	2.2724	2.6074	0.5000

MATRIX	1	2	3	4	5
1	1.0000	0.3837	-0.1227	0.3493	-0.2449
2	0.3837	1.0000	0.1439	0.5062	-0.1181
3	-0.1227	0.1439	1.0000	-0.7806	0.9046
4	0.3493	0.5062	-0.7806	1.0000	-0.8629
5	-0.2449	-0.1181	0.9046	-0.8629	1.0000

DEL 1 M1 CRITERION = 1

PREDICTORS = 3-5
 = 0.4338 RSQ = 0.1882 22 ITERATIONS.

/	BETA	B
1	0.5385	0.4301
2	0.5477	0.3812
3	-0.2573	-0.9337
4. CONST. =		3.3363

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.1472

P = 5 RSQ = 0.1876

R = 0.4331 RSQ = 0.1876 2 ITERATIONS.

V	BETA	B
2	0.3598	0.3964
5	-0.2024	-0.7347

REG. CONST. = 3.2717

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.1472

R = 0.3837 RSQ = 0.1472 1 ITERATIONS.

V	BETA	B
2	0.3837	0.4228

REG. CONST. = 2.7909

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.1882 MODEL 1

RSQ REDUCED = 0.1876 MODEL 2

DIFFERENCE = 0.0006

DFN = 1. DFD = 32. F-RATIO = 0.024 P = 0.8730

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.1876 MODEL 2

RSQ REDUCED = 0.1472 MODEL 3

DIFFERENCE = 0.0404

DFN = 1. DFD = 33. F-RATIO = 1.641 P = 0.2066

*** OUTPUT FROM PROGRAM REGRAN ***

LEVEL 09 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: FACTS

PARAMETERS

DL 1-5 =	5
DL 6-10 =	36
DL 11-15 =	3
DL 16-20 =	2
DL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	9.0833	8.8611	4.6111	4.2500	0.5000

IGMAS	1	2	3	4	5
	4.2254	3.4733	5.3296	4.7806	0.5000

MATRIX	1	2	3	4	5
1	1.0000	0.6632	-0.0121	0.4954	-0.2695
2	0.6632	1.0000	0.4758	0.1961	0.1040
3	-0.0121	0.4758	1.0000	-0.7692	0.8652
4	0.4954	0.1961	-0.7692	1.0000	-0.8890
5	-0.2695	0.1040	0.8652	-0.8890	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.7609 RSQ = 0.5790 13 ITERATIONS.

V	BETA	B
3	0.8916	0.7068
4	1.2090	1.0686
5	0.0339	0.2867
REG. CONST. =	1.1390	

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.4399

P = 5 RSQ = 0.5557

R = 0.7455 RSQ = 0.5557 2 ITERATIONS.

V	BETA	B
2	0.6988	0.8501
5	-0.3422	-2.8918
REG. CONST. =		2.9962

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.4399

R = 0.6632 RSQ = 0.4399 1 ITERATIONS.

V	BETA	B
2	0.6632	0.8068
REG. CONST. =		1.9338

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.5790 MODEL 1

RSQ REDUCED = 0.5557 MODEL 2

DIFFERENCE = 0.0233

DFN = 1. DFD = 32. F-RATIO = 1.769 P = 0.1901

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.5557 MODEL 2

RSQ REDUCED = 0.4399 MODEL 3

DIFFERENCE = 0.1158

DFN = 1. DFD = 33. F-RATIO = 8.603 P = 0.0061

Comparisons of At-Home Participants and Controls on ITBS Reading Skill Areas.

Level 10

<u>Variable</u>	<u>Description</u>
1	Skill area posttest raw score.
2	Skill area pretest raw score.
3	Skill area pretest raw score if At-Home participant; 0, otherwise.
4	Skill area pretest raw score if control; 0, otherwise.
5	1 if At-Home participant; 0, otherwise.

*** OUTPUT FROM PROGRAM REGRAN ***

LEVEL 10 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: VERBS

PARAMETERS

COL 1-5 =	5
COL 6-10 =	22
COL 11-15 =	3
COL 16-20 =	2
COL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	6.5909	6.2273	3.1818	3.0455	0.5000

SIGMAS	1	2	3	4	5
	2.3093	1.8570	3.4197	3.3368	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.6259	0.1821	0.1617	0.0197
2	0.6259	1.0000	0.3156	0.2331	0.0734
3	0.1821	0.3156	1.0000	-0.8492	0.9304
4	0.1617	0.2331	-0.8492	1.0000	-0.9127
5	0.0197	0.0734	0.9304	-0.9127	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5
 R = 0.6271 RSQ = 0.3933 31 ITERATIONS.

V	BETA	B
3	1.1995	0.8100
4	1.0936	0.7568
5	-0.0082	-0.4537
REG. CONST. =		1.9357

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.3917

P = 5 RSQ = 0.3924

R = 0.6264 RSQ = 0.3924 2 ITERATIONS.

V	BETA	B
2	0.6278	0.7807

5	-0.0264	-0.1220
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REG. CONST. = 1.7901

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.3917

R = 0.6259 RSQ = 0.3917 1 ITERATIONS.

V	BETA	B
2	0.6259	0.7783

REG. CONST. = 1.7442

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL =	0.3933	MODEL 1
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RSQ REDUCED =	0.3924	MODEL 2
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DIFFERENCE = 0.0009

DFN = 1. DFD = 18. F-RATIO = 0.027 P = 0.8667

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL =	0.3924	MODEL 2
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RSQ REDUCED =	0.3917	MODEL 3
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DIFFERENCE = 0.0007

DFN = 1. DFD = 19. F-RATIO = 0.022 P = 0.8791

*** OUTPUT FROM PROGRAM REGRAN ***

LEVEL 10 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: NCUNS

PARAMETERS

COL 1-5 = 5
 COL 6-10 = 22
 COL 11-15 = 3
 COL 16-20 = 2
 COL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	5.4545	5.1818	2.5909	2.5909	0.5000

SIGMAS	1	2	3	4	5
	2.0165	1.6959	2.7578	2.9489	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.2815	0.0907	0.0771	0.0451
2	0.2815	1.0000	0.1908	0.3966	-0.0
3	0.0907	0.1908	1.0000	-0.8254	0.9395
4	0.0771	0.3966	-0.8254	1.0000	-0.8786
5	0.0451	-0.0	0.9395	-0.8786	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.2856 RSQ = 0.0816 26 ITERATIONS.

V	BETA	B
3	0.4359	0.3187
4	0.5021	0.3433
5	0.0737	0.2973
REG. CONST. =		3.5906

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.0793

P = 5 RSQ = 0.0813

R = 0.2851 RSQ = 0.0813 2 ITERATIONS.

V	BETA	B
2	0.2815	0.3348
5	0.0451	0.1818
REG. CONST. =		3.6289

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.0793

R = 0.2815 RSQ = 0.0793 1 ITERATIONS.

V	BETA	B
2	0.2815	0.3348
REG. CONST. =		3.7198

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.0816 MODEL 1

RSQ REDUCED = 0.0813 MODEL 2

DIFFERENCE = 0.0003

DFN = 1. DFD = 18. F-RATIO = 0.005 P = 0.9417

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.0813 MODEL 2

RSQ REDUCED = 0.0793 MODEL 3

DIFFERENCE = 0.0020

DFN = 1. DFD = 19. F-RATIO = 0.042 P = 0.8338

*** OUTPUT FROM PROGRAM REGRAN ***

LEVEL 10 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: M & C

PARAMETERS

COL 1-5 =	5
COL 6-10 =	22
COL 11-15 =	3
COL 16-20 =	2
COL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	8.6364	7.4545	3.7273	3.7273	0.5000

SIGMAS	1	2	3	4	5
	2.8532	2.4813	4.0134	4.2231	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.6269	0.0707	0.3011	-0.0637
2	0.6269	1.0000	0.2224	0.3762	-0.0
3	0.0707	0.2224	1.0000	-0.8197	0.9287
4	0.3011	0.3762	-0.8197	1.0000	-0.8826
5	-0.0637	-0.0	0.9287	-0.8826	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.6308 RSQ = 0.3980

4 ITERATIONS.

V	BETA	B
3	0.9655	0.6864
4	1.0950	0.7402
5	0.0034	0.0196
REG. CONST. =		3.3094

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.3930

P = 5 RSQ = 0.3970

R = 0.6301 RSQ = 0.3970 2 ITERATIONS.

V	BETA	B
2	0.6269	0.7208
5	-0.0637	-0.3636
REG. CONST. =		3.4449

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.3930

R = 0.6269 RSQ = 0.3930 1 ITERATIONS.

V	BETA	B
2	0.6269	0.7208
REG. CONST. =		3.2631

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.3980 MODEL 1

RSQ REDUCED = 0.3970 MODEL 2

DIFFERENCE = 0.0009

DFN = 1. DFD = 18. F-RATIO = 0.028 P = 0.8640

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.3970 MODEL 2

RSQ REDUCED = 0.3930 MODEL 3

DIFFERENCE = 0.0041

DFN = 1. DFD = 19. F-RATIO = 0.128 P = 0.7243

*** OUTPUT FROM PROGRAM REGAN ***

LEVEL 10 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: GENERALIZATION

PARAMETERS

COL 1-5 = 5
 COL 6-10 = 22
 COL 11-15 = 3
 COL 16-20 = 2
 COL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	4.4545	4.1364	2.1364	2.0000	0.5000

STANDARD DEVIATIONS	1	2	3	4	5
	2.5536	1.4553	2.4177	2.1950	0.5000

CORRELATION MATRIX	1	2	3	4	5
1	1.0000	-0.0044	0.1814	-0.2027	0.2848
2	-0.0044	1.0000	0.4469	0.1708	0.0937
3	0.1814	0.4469	1.0000	-0.8051	0.8837
4	-0.2027	0.1708	-0.8051	1.0000	-0.9111
5	0.2848	0.0937	0.8837	-0.9111	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.3502

RSQ = 0.1226

13 ITERATIONS.

	BETA	B
3	-0.3283	-0.3473
4	0.3289	0.3826
5	0.8740	4.4638
REG. CONST. =		2.1993

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 5 RSQ = 0.0811

P = 2 RSQ = 0.0821

R = 0.2865 RSQ = 0.0821 2 ITERATIONS.

V	BETA	B
2	-0.0314	-0.0551
5	0.2878	1.4696
REG. CONST. =		3.9477

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.0000

R = 0.0044 RSQ = 0.0000 1 ITERATIONS.

V	BETA	B
2	-0.0044	-0.0078
REG. CONST. =		4.4868

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL =	0.1226	MODEL 1
RSQ REDUCED =	0.0821	MODEL 2
DIFFERENCE = 0.0405		
DFN = 1.	DFD = 18.	F-RATIO = 0.831 P = 0.3772

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL =	0.0821	MODEL 2
RSQ REDUCED =	0.0000	MODEL 3
DIFFERENCE = 0.0821		
DFN = 1.	DFD = 19.	F-RATIO = 1.699 P = 0.2058

*** OUTPUT FROM PROGRAM REGAN ***

LEVEL 10 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: INFERENCES

PARAMETERS

CL 1-5 = 5
 CL 6-10 = 22
 CL 11-15 = 3
 CL 16-20 = 2
 CL 21-25 = 1

INTERCORRELATION ANALYSIS.

ANS	1	2	3	4	5
	4.9545	4.9545	2.1364	2.8182	0.5000

GMAS	1	2	3	4	5
	2.4583	2.0993	2.5637	3.1426	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.3343	0.4049	-0.1070	0.2034
2	0.3343	1.0000	0.1025	0.5844	-0.3248
3	0.4049	0.1025	1.0000	-0.7473	0.8333
4	-0.1070	0.5844	-0.7473	1.0000	-0.8968
5	0.2034	-0.3248	0.8333	-0.8968	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

F = 0.5017 RSQ = 0.2517

19 ITERATIONS.

V	BETA	B
3	0.7655	0.7340
4	0.3997	0.3127
5	-0.0761	-0.3739
EG. CONST.		2.6922

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.1118

P = 5 RSQ = 0.2206

R = 0.4696 RSQ = 0.2206 2 ITERATIONS.

V	BETA	B
2	0.4476	0.5241
5	0.3488	1.7147
REG. CONST. =		1.5005

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.1118

R = 0.3343 RSQ = 0.1118 1 ITERATIONS.

V	BETA	B
2	0.3343	0.3915
REG. CONST. =		3.0150

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.2517 MODEL 1

RSQ REDUCED = 0.2206 MODEL 2

DIFFERENCE = 0.0311

DFN = 1. DFD = 18. F-RATIO = 0.749 P = 0.4024

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.2206 MODEL 2

RSQ REDUCED = 0.1118 MODEL 3

DIFFERENCE = 0.1088

DFN = 1. DFD = 19. F-RATIO = 2.002 P = 0.1166

*** OUTPUT FROM PROGRAM REGAN ***

EVEL 10 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: FACTS

PARAMETERS

OL 1-5 =	5
OL 6-10 =	22
OL 11-15 =	3
OL 16-20 =	2
OL 21-25 =	1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	10.2273	10.0909	5.0909	5.0000	0.5000

STDEVS	1	2	3	4	5
	3.0441	3.3016	5.5752	5.5432	0.5000

MATRIX	1	2	3	4	5
1	1.0000	0.3688	0.1113	0.1077	-0.1045
2	0.3688	1.0000	0.3058	0.2881	0.0275
3	0.1113	0.3058	1.0000	-0.8237	0.9131
4	0.1077	0.2881	-0.8237	1.0000	-0.9020
5	-0.1045	0.0275	0.9131	-0.9020	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.5186 RSQ = 0.2690

16 ITERATIONS.

V	BETA	B
3	1.2447	0.6796
4	0.0563	0.0309
5	-1.1904	-7.2471
REG. CONST. =	10.2362	

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.1360

P = 5 RSQ = 0.1492

R = 0.3862 RSQ = 0.1492 2 ITERATIONS.

V	BETA	B
2	0.3720	0.3429
5	-0.1148	-0.6987
REG. CONST. =		7.1160

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.1360

R = 0.3688 RSQ = 0.1360 1 ITERATIONS.

V	BETA	B
2	0.3688	0.3400
REG. CONST. =		6.7961

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.2690 MODEL 1

RSQ REDUCED = 0.1492 MODEL 2

DIFFERENCE = 0.1198

DFN = 1. DFD = 18. F-RATIO = 2.950 P = 0.0998

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.1492 MODEL 2

RSQ REDUCED = 0.1360 MODEL 3

DIFFERENCE = 0.0132

DFN = 1. DFD = 19. F-RATIO = 0.294 P = 0.5999

Comparisons of At-Home Participants and Controls on ITBS Reading Skill Areas.

Level 11

<u>Variable</u>	<u>Description</u>
1	Skill area posttest raw score.
2	Skill area pretest raw score.
3	Skill area pretest raw score if At-Home participant; 0, otherwise.
4	Skill area pretest raw score if control; 0, otherwise.
5	1 if At-Home participant; 0, otherwise.

*** OUTPUT FROM PROGRAM REGAN ***

LEVEL 11 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: VERBS

PARAMETERS

DL 1-5 = 5
 DL 6-10 = 24
 DL 11-15 = 3
 DL 16-20 = 2
 DL 21-25 = 1

INTERCORRELATION ANALYSIS.

EANS	1	2	3	4	5
	7.6250	6.2083	3.1667	3.0417	0.5000

IGMAS	1	2	3	4	5
	2.4801	2.5328	3.6591	3.5057	0.5000

MATRIX	1	2	3	4	5
1	1.0000	0.5232	0.0895	0.2845	-0.1176
2	0.5232	1.0000	0.4054	0.2994	0.0494
3	0.0895	0.4054	1.0000	-0.7509	0.8654
4	0.2845	0.2994	-0.7509	1.0000	-0.8676
5	-0.1176	0.0494	0.8654	-0.8676	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

= 0.5425 RSQ = 0.2943 24 ITERATIONS.

V	BETA	B
3	0.7538	0.5110
4	0.7485	0.5295
5	-0.1177	-0.5838
EG. CONST.		4.6883

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.2737

P = 5 RSQ = 0.2943

R = 0.5425 RSQ = 0.2943 2 ITERATIONS.

V	BETA	B
2	0.5303	0.5193
5	-0.1438	-0.7131
REG. CONST. =		4.7578

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.2737

R = 0.5232 RSQ = 0.2737 1 ITERATIONS.

V	BETA	B
2	0.5232	0.5123
REG. CONST. =		4.4444

F-TEST 1 MODEL 2 VS MODEL 3

RSQ FULL = 0.2943 MODEL 2

RSQ REDUCED = 0.2737 MODEL 3

DIFFERENCE = 0.0206

DFN = 1. DFD = 21. F-RATIO = 0.614 P = 0.4479

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*** OUTPUT FROM PROGRAM REGRA ***

LEVEL 11 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: NCUNS

PARAMETERS

COL 1-5 = 5

COL 6-10 = 24

COL 11-15 = 3

COL 16-20 = 2

COL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	5.6250	4.9167	2.4583	2.4583	0.5000
SIGMAS	1	2	3	4	5
	1.9108	1.8690	2.7535	2.8261	0.5000
R MATRIX	1	2	3	4	5
1	1.0000	0.5863	0.3019	0.0935	0.0218
2	0.5863	1.0000	0.2989	0.3698	-0.0
3	0.3019	0.2989	1.0000	-0.7761	0.8928
4	0.0935	0.3698	-0.7761	1.0000	-0.8692
5	0.0218	-0.0	0.8928	-0.8692	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.6674 RSQ = 0.4454

29 ITERATIONS.

V	BETA	B
3	1.3967	0.9693
4	0.4490	0.3033
5	-0.8381	-3.2027
REG. CONST. =		4.0978

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.3437

P = 5 RSQ = 0.3442

R = 0.5867 RSQ = 0.3442 2 ITERATIONS.

V	BETA	B
2	0.5863	0.5994
5	0.0218	0.0833
REG. CONST. =		2.6363

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.3437

R = 0.5863 RSQ = 0.3437 1 ITERATIONS.

V	BETA	B
2	0.5863	0.5994
REG. CONST. =		2.6779

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.4454 MODEL 1

RSQ REDUCED = 0.3442 MODEL 2

DIFFERENCE = 0.1012

DFN = 1. DFD = 20. F-RATIO = 3.650 P = 0.0675

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.3442 MODEL 2

RSQ REDUCED = 0.3437 MODEL 3

DIFFERENCE = 0.0005

DFN = 1. DFD = 21. F-RATIO = 0.015 P = 0.8986

*** OUTPUT FROM PROGRAM REGAN ***

LEVEL 11 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: M & C

PARAMETERS

COL 1-5 = 5
 COL 6-10 = 24
 COL 11-15 = 3
 COL 16-20 = 2
 COL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	8.2083	6.6667	3.2083	3.4583	0.5000

SIGMAS	1	2	3	4	5
	2.6923	2.4267	3.5471	3.9368	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.7504	-0.0351	0.4942	-0.2321
2	0.7504	1.0000	0.1727	0.4609	-0.1030
3	-0.0351	0.1727	1.0000	-0.7946	0.9045
4	0.4942	0.4609	-0.7946	1.0000	-0.8785
5	-0.2321	-0.1030	0.9045	-0.8785	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.7688 RSQ = 0.5911

2 ITERATIONS.

V	BETA	B
3	0.9700	0.7362
4	1.2649	0.8651
5	0.0	0.0
REG. CONST.		2.8546

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2 2 5 5

P = 2 RSQ = 0.5631

P = 5 RSQ = 0.5874

R = 0.7664 RSQ_b = 0.5874 2 ITERATIONS.

V	BETA	B
2	0.7343	0.8147
5	-0.1565	-0.8427
REG. CCNST. =		3.1986

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2 2

P = 2 RSQ = 0.5631

R = 0.7504 RSQ = 0.5631 1 ITERATIONS.

V	BETA	B
2	0.7504	0.8325
REG. CCNST. =		2.6580

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.5911 MODEL 1

RSQ REDUCED = 0.5874 MODEL 2

DIFFERENCE = 0.0037

DFN = 1. DFD = 20. F-RATIO = 0.181 P = 0.6776

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.5874 MODEL 2

RSQ REDUCED = 0.5631 MODEL 3

DIFFERENCE = 0.0242

DFN = 1. DFD = 21. F-RATIO = 1.233 P = 0.2791

*** OUTPUT FROM PROGRAM REGAN ***

EL 11 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: GENERALIZATION

METERS

1-5 =	5
6-10 =	24
11-15 =	3
16-20 =	2
21-25 =	1

CORRELATION ANALYSIS.

VS	1	2	3	4	5
	7.5417	6.9167	3.2500	3.6667	0.5000

MAS	1	2	3	4	5
	3.5116	3.3901	4.2155	4.1899	0.5000

ATRIX	1	2	3	4	5
1	1.0000	0.7388	0.2385	0.3578	-0.1068
2	0.7388	1.0000	0.4096	0.3970	-0.1229
3	0.2385	0.4096	1.0000	-0.6747	0.7710
4	0.3578	0.3970	-0.6747	1.0000	-0.8751
5	-0.1068	-0.1229	0.7710	-0.8751	1.0000

EL 1 M1 CRITERION = 1

DICTORS = 3-5
0.7507 RSQ = 0.5635 25 ITERATIONS.

BETA	B
0.7983	0.6650
1.1197	0.9385
0.2576	1.8095
CCNST. =	1.0347

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.5458

P = 5 RSQ = 0.5461

R = 0.7390 RSQ = 0.5461 2 ITERATIONS.

V	BETA	B
2	0.7368	0.7632
5	-0.0162	-0.1140

REG. CONST. = 2.3199

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.5458

R = 0.7388 RSQ = 0.5458 1 ITERATIONS.

V	BETA	B
2	0.7388	0.7653

REG. CONST. = 2.2486

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.5635 MODEL 1

RSQ REDUCED = 0.5461 MODEL 2

DIFFERENCE = 0.0174

DFN = 1. DFD = 20. F-RATIO = 0.799 P = 0.3855

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.5461 MODEL 2

RSQ REDUCED = 0.5458 MODEL 3

DIFFERENCE = 0.0003

DFN = 1. DFD = 21. F-RATIO = 0.012 P = 0.9101

*** OUTPUT FROM PROGRAM REGRAH ***

LEVEL 11 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL: INFERENCES

PARAMETERS

COL 1-5 = 5
 COL 6-10 = 24
 COL 11-15 = 3
 COL 16-20 = 2
 COL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	6.5833	6.0417	3.2083	2.8333	0.5000

IGMAS	1	2	3	4	5
	3.4510	2.8059	3.7525	3.4601	0.5000

MATRIX	1	2	3	4	5
1	1.0000	0.6903	0.3252	0.2070	0.1690
2	0.6903	1.0000	0.4740	0.2968	0.1336
3	0.3252	0.4740	1.0000	-0.7001	0.8550
4	0.2070	0.2968	-0.7001	1.0000	-0.8189
5	0.1690	0.1336	0.8550	-0.8189	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.7156 RSQ = 0.5121 28 ITERATIONS.

V	BETA	B
3	0.6810	0.6263
4	1.0450	1.0423
5	0.4395	3.0338
ES. CONST.		0.1040

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.4765

P = 5 RSQ = 0.4825

R = 0.6946

RSQ = 0.4825

2 ITERATIONS.

V	BETA	B
2	0.6798	0.8361
5	0.0782	0.5396
REG. CONST. =		1.2621

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.4765

R = 0.6903

RSQ = 0.4765

1 ITERATIONS.

V	BETA	P
2	0.6903	0.8490
REG. CONST. =		1.4542

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.5121 MODEL 1

RSQ REDUCED = 0.4825 MODEL 2

DIFFERENCE = 0.0297

DFN = 1. DFD = 20. F-RATIO = 1.217 P = 0.2829

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.4825 MODEL 2

RSQ REDUCED = 0.4765 MODEL 3

DIFFERENCE = 0.0060

DFN = 1. DFD = 21. F-RATIO = 0.244 P = 0.6318

*** OUTPUT FROM PROGRAM REGAN ***

LEVEL 11 -- AT HOME PROGRAM 12/80 -- 10 WEEK VS CONTROL -- SKILL FACTS

PARAMETERS

COL 1-5 = 5
 COL 6-10 = 24
 COL 11-15 = 3
 COL 16-20 = 2
 COL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	8.2917	7.5000	3.5833	3.9167	0.5000

SIGMAS	1	2	3	4	5
	3.2975	3.1623	4.2516	4.4714	0.5000

R MATRIX	1	2	3	4	5
1	1.0000	0.7053	0.2345	0.2758	-0.0885
2	0.7053	1.0000	0.3006	0.4214	-0.1054
3	0.2345	0.3006	1.0000	-0.7383	0.8428
4	0.2758	0.4214	-0.7383	1.0000	-0.8759
5	-0.0885	-0.1054	0.8428	-0.8759	1.0000

MODEL 1 MI CRITERION = 1

PREDICTORS = 3- 5

R = 0.7117 RSQ = 0.5065 30 ITERATIONS.

V	BETA	B
3	1.0603	0.8227
4	0.8629	0.6364
5	-0.2237	-1.4755
REG. CONST.		3.5890

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = 0.4974

P = 5 RSQ = 0.4976

R = 0.7054 RSQ = 0.4976 2 ITERATIONS.

V	BETA	B
2	0.7038	0.7338
5	-0.0143	-0.0941
REG. CONST. =		2.8349

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = 0.4974

R = 0.7053 RSQ = 0.4974 1 ITERATIONS.

V	BETA	B
2	0.7053	0.7354
REG. CONST. =		2.7760

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.5065 MODEL 1

RSQ REDUCED = 0.4976 MODEL 2

DIFFERENCE = 0.0089

DFN = 1. DFD = 20. F-RATIO = 0.363 P = 0.5603

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.4976 MODEL 2

RSQ REDUCED = 0.4974 MODEL 3

DIFFERENCE = 0.0002

DFN = 1. DFD = 21. F-RATIO = 0.008 P = 0.9250

Comparisons of Twenty Week At-Home Participants and Matched Controls
on ITBS Average Reading Grade Equivalent Gains.

Grades 1-5

<u>Variable</u>	<u>Description</u>
1	Fall, 1980, Average Reading grade equivalent.
2	Spring, 1980, Average Reading grade equivalent.
3	Spring, 1980, Average Reading grade equivalent if 20 week participant; 0, if control.
4	Spring, 1980, Average Reading grade equivalent if control; 0, if participant.
5	1 if 20 week participant; 0, if control.

GRADES 2-6 AT HOME PROGRAM 12/80--20WEEK STUDENTS VS CONTROLS--READ TOTALPARAMETERS

COL 1- 5 = 5
 COL 6-10 = 72
 COL 11-15 = 3
 COL 16-20 = 2
 COL 21-25 = 1

DATA FORMAT = (4F2.1,F1)

MEANS	1	2	3	4	5
	2.4819	2.1431	1.0625	1.0806	.5000

SIGMAS	1	2	3	4	5
	1.2507	1.2567	1.3911	1.3930	.5000

R MAT	1	2	3	4	5
1	1.0000	.9172	.3663	.4617	-.0433
2	.9172	1.0000	.4502	.4526	-.0144
3	.3663	.4502	1.0000	-.5925	.7639
4	.4617	.4526	-.5925	1.0000	-.7757
5	-.0433	-.0144	.7639	-.7757	1.0000

MODEL 1 CRITERION = 1PREDICTORS = 3- 5

R = .9191 RSQ = .8448 29 ITERATIONS.

V	BETA	B
3	.9590	.8622
4	1.0744	.9646
5	.0573	.1434
REG. CONST.		.4518

MODEL 2 CRITERION = 1

PREDICTORS = 2- 2 5- 5

P = 2 RSQ = .8412

P = 5 RSQ = .8421

R = .9177 RSQ = .8421 2 ITERATIONS.

V	BETA	B
2	.9167	.9123
5	-.0301	-.0754

REG. CONST. = .5645

REG. CONST. = .5645

MODEL 3 CRITERION = 1

PREDICTORS = 2- 2

P = 2 RSQ = .8412

R = .9172 RSQ = .8412 1 ITERATIONS.

V	BETA	B
2	.9172	.9129

REG. CONST. = .5258

F-TEST 1 TEST FOR EQUAL SLOPES

RSQ FULL = .8448 MODEL 1

RSQ REDUCED = .8421 MODEL 2

DIFFERENCE = .0027

DFN = 1 DFD = 68 F-RATIO = 1.173 P = .2913

F-TEST 2 TEST FOR EQUAL INTERCEPTS

RSQ FULL = .8421 MODEL 2

RSQ REDUCED = .8412 MODEL 3

DIFFERENCE = .0009

DFN = 1 DFD = 69 F-RATIO = .397 P = .5379

Comparison of New and Repeating At-Home Participants on Average Reading Grade Equivalent Scores.

<u>Variable</u>	<u>Description</u>
1	Fall, 1980, average reading grade equivalent.
2	Spring, 1980, average reading grade equivalent.
3	Spring, 1980, average reading grade equivalent if new participant; 0, otherwise.
4	Spring, 1980, average reading grade equivalent if repeating participant; 0, otherwise.
5	1 if repeating participant; 0, otherwise.

*** OUTPUT FROM PROGRAM REGRAN ***

ALL GRADES -- AT HOME PROGRAM 12/80 -- NEW VS OLD PARTIC. -- READING TOTAL G

PARAMETERS

COL 1-5 = 5
 COL 6-10 = 190
 COL 11-15 = 3
 COL 16-20 = 2
 COL 21-25 = 1

INTERCORRELATION ANALYSIS.

MEANS	1	2	3	4	5
	2.6553	2.3842	2.0247	0.3595	0.1526

SIGMAS	1	2	3	4	5
	1.4000	1.3838	1.5833	0.9294	0.3596

R MATRIX	1	2	3	4	5
1	1.0000	0.9377	0.7705	0.0835	-0.0188
2	0.9377	1.0000	0.8120	0.1057	-0.0089
3	0.7705	0.8120	1.0000	-0.4946	-0.5427
4	0.0835	0.1057	-0.4946	1.0000	0.9113
5	-0.0188	-0.0089	-0.5427	0.9113	1.0000

MODEL 1 M1 CRITERION = 1

PREDICTORS = 3-5

R = 0.9378 RSQ = 0.8795 5 ITERATIONS.

V	BETA	B
3	1.0753	0.9508
4	0.6118	0.9216
	0.0072	0.0280
RS	CONST. =	0.3945

MODEL 2 M2 CRITERION = 1

PREDICTORS = 2= 2 5= 5

P = 2 RSQ = 0.8792

P = 5 RSQ = 0.8793

R = 0.9377 RSQ = 0.8793 2 ITERATIONS.

V	BETA	B
2	0.9376	0.9485
5	-0.0105	-0.0409
REG. CONST. =		0.4000

MODEL 3 M3 CRITERION = 1

PREDICTORS = 2= 2

P = 2 RSQ = 0.8792

R = 0.9377 RSQ = 0.8792 1 ITERATIONS.

V	BETA	B
2	0.9377	0.9486
REG. CONST. =		0.3935

F-TEST 1 MODEL 1 VS MODEL 2

RSQ FULL = 0.8795 MODEL 1

RSQ REDUCED = 0.8793 MODEL 2

DIFFERENCE = 0.0002

DFN = 1. DFD = 186. F-RATIO = 0.270 P = 0.6105

F-TEST 2 MODEL 2 VS MODEL 3

RSQ FULL = 0.8793 MODEL 2

RSQ REDUCED = 0.8792 MODEL 3

DIFFERENCE = 0.0001

DFN = 1. DFD = 187. F-RATIO = 0.171 P = 0.6833

Printouts for Determining Relationship Between Gains in Word Analysis
Scores and Grade Level: Grades 1 and 2.

<u>Printouts</u>	<u>Description</u>
1	Frequency distribution of grade equivalent gains for both grades together.
2	Chi-square for relationship between grade and gain.

1980 AT-HOME PROGRAM -- WORD ANALYSIS GRADE EQUIVALENTS -- GRADES 1-2
FREQUENCY DISTRIBUTION FOR VARIABLE # 3 (WORD ANALYSIS GAINS)

CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT.)	ADJUSTED FREQ (PCT.)	CUMULATIVE FREQ (PCT.)
-1.0000	5.	4.6	4.6	4.6
-0.9000	1.	0.9	0.9	5.5
-0.8000	2.	1.8	1.8	7.3
-0.6000	6.	5.5	5.5	12.8
-0.5000	7.	6.4	6.4	19.3
-0.3000	5.	4.6	4.6	23.9
-0.2000	4.	3.7	3.7	27.5
-0.1000	6.	5.5	5.5	33.0
0.0	7.	6.4	6.4	39.4
0.1000	8.	7.3	7.3	46.8
0.2000	8.	7.3	7.3	54.1
0.3000	12.	11.0	11.0	65.1
0.4000	3.	2.8	2.8	67.9
0.5000	4.	3.7	3.7	71.6
0.6000	7.	6.4	6.4	78.0
0.7000	9.	8.3	8.3	86.2
0.8000	1.	0.9	0.9	87.2
0.9000	2.	1.8	1.8	89.0
1.1000	2.	1.8	1.8	90.8
1.2000	2.	1.8	1.8	92.7
1.3000	1.	0.9	0.9	93.6
1.4000	3.	2.8	2.8	96.3
1.6000	1.	0.9	0.9	97.2
1.7000	1.	0.9	0.9	98.2
2.2000	1.	0.9	0.9	99.1
2.3000	1.	0.9	0.9	100.0
TOTAL	109.	100.0	100.0	

VALID CASES= 109
MISSING CASES= 0

MEAN=	0.2083	VARIANCE=	0.4402
STD. DEV=	0.6635	STD. ERR=	0.0636
MAXIMUM=	2.3000	MINIMUM=	-1.0000
RANGE=	4.3000		

***OUTPUT FROM PROGRAM CHICHI ***

 PROBLEM = HIGHLO N = 109.

 P = 0.3168 FOR CHI-SQUARE = 1.007 WITH D.F. = 1.

R TOTALS	1	2
	50.0000	59.0000

OBS FREQ	1	2
1	36.0000	14.0000
2	36.0000	23.0000

EXP FREQ	1	2
1	33.0275	16.9725
2	38.9725	20.0275

C TOTALS	1	2
	72.0000	37.0000

ROWS:	1 = HIGH GAINERS
	2 = LOW GAINERS

COLUMNS:	1 = GRADE 1 IN 1979-80
	2 = GRADE 2 IN 1979-80

Printouts for Determining Relationship Between Gains in Reading Total
Scores and Grade Level: Grades 1-5.

<u>Printouts</u>	<u>Description</u>
1	Frequency distribution of grade equivalent gains for all grades together.
2	Chi-square for relationship between grade and gain:

1980 AT-HOME PROGRAM -- READING TOTAL GRADE EQUIVALENTS -- GRADES 1-5
 FREQUENCY DISTRIBUTION FOR VARIABLE # 3 (READING TOTAL GAINS)

CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT.)	ADJUSTED FREQ (PCT.)	PERCENT (PC)
-1.4	1.	0.5	0.5	0.5
-1.0	1.	0.5	0.5	1.1
-0.9	1.	0.5	0.5	1.3
-0.7	2.	1.1	1.1	2.7
-0.6	1.	0.5	0.5	3.2
-0.5	5.	2.7	2.7	5.9
-0.4	7.	3.8	3.8	9.7
-0.3	9.	4.9	4.9	14.6
-0.2	6.	3.2	3.2	17.8
-0.1	8.	4.3	4.3	22.2
0.0	12.	6.5	6.5	28.6
0.1	19.	10.3	10.3	38.9
0.2	15.	8.1	8.1	47.0
0.3	21.	11.4	11.4	58.4
0.4	13.	7.0	7.0	65.4
0.5	19.	10.3	10.3	75.7
0.6	17.	9.2	9.2	84.9
0.7	3.	1.6	1.6	86.5
0.8	7.	3.8	3.8	90.3
0.9	4.	2.2	2.2	92.4
1.0	5.	2.7	2.7	95.1
1.2	2.	1.1	1.1	96.2
1.3	3.	1.6	1.6	97.8
1.4	2.	1.1	1.1	98.9
1.5	1.	0.5	0.5	99.5
1.9	1.	0.5	0.5	100.0
TOTAL	185.	100.0	100.0	

VALID CASES= 185
 MISSING CASES= 0

MEAN= 0.2681 VARIANCE= 0.2329
 STD. DEV= 0.4826 STD. ERR= 0.0355
 MAXIMUM= 1.9000 MINIMUM= -1.4000
 RANGE= 4.3000

***OUTPUT FROM PROGRAM CHICHI ***

 PROBLEM = HIGHLO N = 185.

 P = 0.1717 FOR CHI-SQUARE = 6.387 WITH D.F. = 4.

R TOTALS	1	2
	98.0000	87.0000

OBS FREQ	1	2	3	4	5
1	44.0000	19.0000	8.0000	12.0000	15.0000
2	28.0000	18.0000	16.0000	14.0000	11.0000

EXP FREQ	1	2	3	4	5
1	38.1405	19.6000	12.7135	13.7730	13.7730
2	33.8595	17.4000	11.2865	12.2270	12.2270

C TOTALS	1	2	3	4	5
	72.0000	37.0000	24.0000	26.0000	26.0000

 ROWS: 1 = HIGH GAINERS
 2 = LOW GAINERS

 COLUMNS: 1 = GRADE 1 IN 1979-80
 2 = GRADE 2 IN 1979-80
 3 = GRADE 3 IN 1979-80
 4 = GRADE 4 IN 1979-80
 5 = GRADE 5 IN 1979-80
